

REQUEST FOR PROPOSAL DOCUMENT



ANGRAU

ACHARYA N. G. RANGA AGRICULTURAL UNIVERSITY

ENGG. WING, HANUMAN TOWERS: OPP. HOSANNA MANDIR, GORANTAL, GUNTUR – 522 034, A.P.

RFP No:001/ANGRAU/EO/TA/2018 – Dated 14 - 08 - 2018

Name of work: REQUEST FOR PROPOSAL FOR 3RD PARTY QUALITY ASSUARANCE AND QUALITY CONTROL SERVICES AGENCY FOR CIVIL ENGINEERING WORKS OF INTEGRATED ADMINISTRATIVE BUILDING IN ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR.

INDEX

S.No.	Contents	Pages No's
I. Volume-1		
1.	Index	3
Part I : Technical Proposal		
1.	RFP Notification	6
2.	Request for Proposal	7-14
3	Term of Reference	15-21
4	General Conditions of Contract	22-27
5	Special conditions of Contract	27-50
6	Specifications	51-67
8	Form – F1 to 4	69-72
9	DRAFT Form of Agreement	73-75
Part II		
1	Letter of transmittal	77
2	Annexure – 1	79-81
3	Annexure – II	82
4	Annexure – III	83-84
5	Annexure – IV	85-86
6	FORM – A	87-88
7	FORM – B	89-90
8	FORM – C (i)	91
9	FORM – C (ii)	92-93
10	FORM – D	94
II) Volume-II		
	PRICE BID	96

Part I

Technical Proposal



ANGRAU

ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY

ADMN.OFFICE, LAM, GUNTUR – 522 034.

REQUEST FOR PROPOSAL NOTIFICATION

RFP NO: 001 /ANGRAU/EO/TA/2018, Dated: 14-08-2018

Name of work: REQUEST FOR PROPOSAL FOR 3RD PARTY QUALITY ASSUARANCE AND QUALITY CONTROL SERVICES AGENCY FOR CIVIL ENGINEERING WORKS OF INTEGRATED ADMINISTRATIVE BUILDING IN ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR.

ANGRAU invites RFP from interested parties / Firm, for providing Services of 3rd Party Quality Assurance and Control Services for Civil Engineering Works of Integrated Administrative Building at ANGRAU, Lam, Guntur. The firms who are willing to offer their services shall submit complete details in the prescribed formats in document form which can be downloaded from the website www.angrau.ac.in The document forms, complete in all respects, should be submitted to the Estate Officer, ANGRAU on or before 12.09.2018 up to 3.00 P.M. The exact time and date of opening of price bid will be intimated to the successful proposer through phone, email and ANGRAU web site.

Any further information may be obtained from the Estate Officer, ANGRAU during the office working hours (Mobile : 9440010903).

Date: 14-08-2018
Guntur

Sd/-
Estate Officer
ANGRAU

REQUEST FOR PROPOSAL FOR 3RD PARTY QUALITY ASSUARANCE AND QUALITY CONTROL SERVICES AGENCY FOR CIVIL ENGINEERING WORKS OF INTEGRATED ADMINISTRATIVE BUILDING IN ACHARYA N.G.RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR".

RFP.NO. 001/ANGRAU/EO/TA/2018

Dt. 14-08 -2018

INVITATION FOR OPEN BID

Name of work: REQUEST FOR PROPOSAL FOR 3RD PARTY QUALITY ASSUARANCE AND QUALITY CONTROL SERVICES AGENCY FOR CIVIL ENGINEERING WORKS OF INTEGRATED ADMINISTRATIVE BUILDING IN ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR.

1 INTRODUCTION

1. Acharya N.G. Ranga Agricultural University caters to the Education, Research and Extension in the field of Agriculture in the State of Andhra Pradesh.
2. ANGRAU has an Engineering Wing for execution of civil works for the University in the 13 Districts of Andhra Pradesh.
3. The general categories of works taken up by ANGRAU are as follows:
 - 1) RCC Buildings
 - 2) Cement Concrete Pavements
 - 3) Bituminous Road Works
 - 4) Under Ground Drainage & Storm Water Drains in the Institution premises
 - 5) Other civil works.
 - 6) Water Supply Sytem.
4. ANGRAU intends to engage independent 3rd party agency to assess the quality of works executed in the construction of Integrated Administrative building at ANGRAU, Lam, Guntur and to take necessary remedial measures in case of short falls in quality if any found apart from utilizing their services to educate the construction agencies so as to maintain the standards of quality as per prescribed codes.
5. ANGRAU is inviting request for proposal from the Registered Private Firms, Government Firms, non-governmental organizations. The interested bidders, who are having past experience in these O&M Services of similar nature and financial capability to undertake the job can obtain the RFP documents from the office of Estate Officer, ANGRAU, Lam, Guntur by submitting Demand Draft for an amount of

Rs.10,000/- (non refundable) drawn in favour of The Comptroller, ANGRAU, Lam, Guntur payable at any Nationalized bank in Guntur.

6. If the RFP document is downloaded from ANGRAU website, (www.angrau.ac.in) processing fee of Rs.10,000/- in favour of Comptroller, ANGRAU, Guntur have to be submitted in a separate cover. No other documents are to be enclosed in this cover. All the separate covers of Processing fees cover, Technical proposal cover and Financial bid cover are to be placed and sealed in a big cover addressed to The Estate Officer, ANGRAU, Lam, Guntur.

7. The schedule of RFP and the opening of bids are mentioned below.

Downloading of RFP schedule From ANGRAU website www.angrau.ac.in Available from	16-08-2018
Pre Bid Meeting	04-09-2018 at 11.30 AM.
Receipt of Bids	12-09-2018 up to 3.00 P.M.
Opening of price Bid	The exact date of opening of the price bid will be intimated to the successful proposers through phone, email and ANGRAU web page.

Venue of the pre Bid meeting and Bids Opening: Board Room,
Faculty Block, ANGRAU, Lam, Guntur.

1. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and same venue.
2. The Estate Officer, ANGRAU has the right to reject, cancel, post pone, advance, any or all Bids without assigning any reasons thereof.
3. The selected bidder is expected to commence the Assignment on the date and at the location specified in the work order.

2 Scope:

- Independent assessment of quality of construction of works by third party agency to ensure that the Civil Works of Integrated administrative Building are constructed with good construction materials & as per desired standards of quality construction and to motivate Contractors to achieve above aspects.

- The 3rd party quality control agency shall provide an independent assessment of the quality of Civil Works of Integrated administrative Building at different stages of construction. The agency shall setup a quality control system with the help of prescribed testing norms laid through a competent team to appropriate technical personnel. The agency/agencies engaged shall be responsible for assessing quality of basic input materials, workmanship and final product by conducting appropriate tests (both field & laboratory) including periodical supervision of Civil Works at appropriate stage of construction.
- The consultant shall deploy the professional & subordinate as per need of assignment and shall issue report of completed works.
- During pre-construction inspection, the consultant shall highlight the problem area if any, and also suggest steps/solution for the same so as to achieve the desired target of quality.

3 Qualification criteria for participation in the RFP.

- a. Consultancy firm (individual single firm or joint venture) should be in existence at least for the last 3 (three) years in the field of QA&QC Consultancy for Civil Works, (Documentary evidence to be enclosed) with an overall construction area of the buildings not less than 2,00,000 s.ft and costing not less than Rs. 60.00crores.
- b. The Consultant should have experience of Third Party Quality Control services for civil works for at least one building with 9 floors and above, should had completed within last 3 years.
- c. The average annual financial turnover of the firm on civil engineering consultancy works shall not be less than Rs. 1.00 Cr in the last three years average. The proposer should submit latest Audited Balance Sheet duly certified by the Chartered Accountant along with P&L statement.
- d. Only firm having +ve net worth and profit making in all the last three financial years are allowed to form consortium.
- e. The Firm should have one present ongoing projects in the Government Sector by this RFP notification date.
- f. The Firm shall have owned the laboratory at Guntur/ Vijayawada /Hyderabad that has accreditation by National Accreditation Board for Testing and Calibration Laboratories (NABL) for testing and verify the quality of the construction materials.
- g. The Consultancy firm shall have valid registration for GST.

- h. The Firm /Company should have full-fledged establishment/office in Guntur/Vijayawada.
- i. The consultant shall be able to appoint a manager with one M.Tech (Civil) with 10 years experience as QC Engineer and two Asst Managers with 5 years apart from other supporting technical and non-technical staff exclusively for this job and shall be stationed at work site of Integrated Administrative Building site.
- j. The consultant should have experience in checking the structural design and drawings relevant documents may be furnished.

Note:

- i. In support of qualifying criteria, the details and certificates are to be furnished as per the proformas available in the RFP document.
- ii. Financial turnover of previous years 3 years (i.e, from 2017 to backwards) shall be considered.
- iii. The RFP are open to individuals or single firms and joint venture. In case of joint ventures, the MOU shall be submitted.
- iv. The proposer is subjected to be disqualified and liable for black-listing and for feature of bid security, if he is found to have misled or furnished false information in the forms/statements/certificates submitted in proof of qualification requirements.
- v. Even during the contract, if found that the agency had produced False/fake certificates of experience he will be liable for black-listing and the contract will be liable for termination and liable for feature of Bid security and all the amounts due to him.
- vi. The bidder should submit a copy of PAN CARD and a copy of valid GST Registration certificate issued by the competent authority, and copy of the latest GST Return filed by them and latest Income Tax returns
- vii. Sub – Contracting is not allowed.
- viii. ANGRAU reserves the right to relax the condition uniformly if required for eligibility of the bidders in the public interest. The bidder(s) shall not have any right to question the decision taken by the ANGRAU in this regard.

4 Bid Security:

The proposer shall furnish bid Security for Rs. 1,00,000/- (Refundable) in the form of demand draft by nationalized bank with validity period up to fifteen months in favour of the Executive Engineer, ANGRAU, Guntur. Bid Security shall be kept in the first envelope containing Technical proposal.

5 The following documents are enclosed to enable the agencies to submit their proposal

1. Terms of reference (TOR)
 2. General Conditions of the Contract
 3. Special Conditions of Contract
 4. Forms F-1-4
 5. Draft Form of Agreement
 6. Financial Proposal
- 6.0 A pre-Bid conference open to all prospective agencies will be held on 04.09.2018 @ 11.30 A.M. at Board Room, Faculty Block, ANGRAU, Lam, Guntur. The prospective consultant will have opportunity to seek clarifications on the scope of the work, terms of reference, contract conditions and any other required information.
- 7.0 The submission of the proposals:
The proposals shall be submitted in two parts viz.
Volume 1: Technical and Volume II: Financial and should follow the procedure given below:
- 7.1 The "Technical" and "Financial" proposals must be submitted in two separate sealed envelopes (with respective marking on the covers in bold letters) in the prescribed formats/schedules given in the schedule. The first envelope marked "TECHNICAL PROPOSAL" should include the description of the firm/organization, the firm's general experience in the field of assignment and competency of the personnel proposed for the assignment and proposed the work plan methodology and approach in response to suggested terms of reference. The proposer shall also submit along with technical proposal proof of owning Quality Laboratory along with Technical proposal. The first envelope should not contain any cost information whatsoever, if it contains the Agency will not be allowed in the bid. The second envelope marked "SCHEDULE OF FINANCIAL PROPOSAL" must also be sealed with sealing wax and initialed twice across the seal and should contain the detailed price offer for the services.
- 7.2 Both the sealed envelopes should again be placed in a sealed cover, which will be received in the office of the Estate Officer, ANGRAU, Lam, Guntur upto the time mentioned in the RFP notice.
- 7.3 Proposer shall quote fixed percentage both in figures and words. On the value of work executed. (as per the payment made to the civil contractor). The approximate value of civil work is Rs. 83.00 crores.
- 7.4 Opening of the Technical Proposal:
The envelope containing technical proposal will be opened by the Estate Officer, ANGRAU, Lam, Guntur. It may please be noted that the second envelope containing the detailed price offer will not be opened until technical evaluation has been completed and approved by the competent authority.

8. Evaluation

A two –stage procedure will be adopted in evaluating the proposals with the technical evaluation being completed prior to any financial proposals are opened. The technical evaluation will be carried out on the information & documentary evidence furnished by the agency along with Technical Proposal. All firms who satisfy the qualifying criteria will be declared successful in technical proposal and the financial proposals of only those agencies who are declared successful in technical proposal will be opened. The successful agency in technical proposal will be kept in panel list for engagement in future works.

9. Award of Contract

- a) The Financial proposals shall be opened in the o/o Estate Officer in the presence of the Successful Consultants or their representatives who choose to attend on the prescribed date & time which will be intimated to all the technically qualified proposers in advance.
- b) The financial offer shall include all taxes except GST.
- c) The first lowest financial offer Agency will be awarded work. The nature of the contract is non exclusive and the ANGRAU can choose as many firms as required depending on the work load at lowest offered rates. The decision of the award of the contract to a single firm or many firms and allocation of operational area are solely at the discretion of the ESTATE OFFICER, ANGRAU, LAM, GUNTUR.

10. The firms are requested to hold their financial proposal valid for 90 days from the date of opening financial proposal without changing the personnel proposed for the assignment and the proposed price. The ESTATE OFFICER will make its best efforts to select firm/firms within this period.

11. Assuming that the contract can be satisfactorily concluded in one month and the Q.C. firms are expected to take up/commence the assignment with in next one month.

12. It may be noted that the remuneration, which will be received from the contract, will be subject to normal tax liability in India. The concerned tax authorities may be contracted for further information in this regard if required.

14. The quantum of work can be increased or reduced and the payment will be released for the service actually offered at the approved rates. The ANGRAU reserves the right to change the area or operation allocated to the agency.

15. ANGRAU reserves the right to accept or reject any or all bids without assigning any reasons whatsoever.

16. The dates stipulated in the RFP are firm and under no circumstances they will be relaxed unless officially extended.
17. The proposers are hereby instructed not to alter and make any changes to the RFP documents. If any changes are made by the proposer, it shall be treated as tampering of documents and the bid shall be summarily rejected.
18. The RFP is likely to be rejected on opening the RFP and if it is found that –
- i. The bid security is not enclosed
 - ii. The bid processing fees is not enclosed
 - iii. The proposer has not strictly followed the procedure laid down for submission of RFP.
 - iv. The proposer has proposed conditions which are inconsistent with of contrary to the terms and conditions specified.
 - v. Additions, corrections or alternation are made by the proposer on any page of RFP document.
 - vi. Any page or pasted slips are missing
 - vii. The proposer has not signed the RFP.
 - viii. The proposer has specified any additional condition.
 - ix. The proposer has quoted financial offer anywhere other than specified in financial bid.
19. If there is any discrepancy between the offer quoted in figures and in words, the rate quoted in words will be treated as the final offer.
20. Preparation of panel of Agencies: The right of keeping panel of approved Agencies is at the discretion of the Estate Officer, ANGRAU. The panel of 3rd party Quality Control agencies will be prepared based on the rate quoted by the lowest bidder. If the other bidders who participated in the bid, agree to offer their services at the same rate of lowest bidder those agencies will be kept on the panel list. This panel will be used for other forthcoming works of ANGRAU apart from the Integrated Administrative Building as per the sole Discretion of ANGRAU and willing of the Agencies/Firms.

Estate Officer
ANGRAU, Lam, Guntur

Enclosures:

1. Terms of Reference.
2. General Condition of Contract.

3. Special Conditions of Contract
4. Forms 1–4
5. Draft Form of Agreement
6. Volume II Financial Proposal

TERMS OF REFERENCE

1. OBJECTIVES

The main objective of this assignment is to obtain independent assessment of the quality of the Integrated Administrative Building Construction at ANGRAU, Lam, Guntur.

The 3rd party Quality Assurance and Quality Control agency shall provide an independent assessment of the quality of the works at different stages of construction.

1. Footings
2. Plinth Beams
3. Roof Slabs
4. Finishing's

The Agency shall setup a quality control system with The agency the help of prescribed testing norms through a competent team of Technology Personal.

The consultant employed shall be responsible for assessment of quality control of both materials & work man ship and visual inspection of civil works at appropriate stage of construction.

For physical inspection of the civil works the consultant shall deploy the professional & subordinates as per need of the assignment and shall issue reports accordingly.

The consultant shall highlight the problem area if any, and also suggest steps/solutions for the same so as to achieve the desired standards of quality products. For quality control, the consultant shall carry out testing at random (both field & laboratory) of materials used in construction work, workmanship and final product of construction of work.

2. SCOPE OF WORK

2.1 The consultant or his representative shall inspect the sites before commencement of work, during progress of the work at the frequency mentioned below in para 3.9 and after completion of work and closely verify whether stipulated standards of quality is maintained at site. If there is any discrepancy/error/omission, the consultant shall point out it with suggestions and remedial measures to the ANGRAU.

2.2 The consultant shall carry out independent testing (Field & Laboratory) of construction materials, workmanship and final product of work with due diligence and will report to the concerned Executive with his suggestions and remedial measures if any.

3. GOVERNING FACTORS

3.1 The job of consultancy for quality control shall be combination of field visits, testing of materials, office work, comments of construction materials, checking of test results, submission of results.

3.2

- a. the consultant shall timely carry out independent checking / testing of materials after collecting random sample in the presence of representative of contractor and department of ensure that specified quality is achieve.
- b. If neither departmental officer nor contractor is present at site, they shall visit the site again with due notice to the departmental officer/contractor and sampling shall be done only in their presence.
- c. The frequency, number, location and timing of sampling shall be spread over the whole area of the work and construction period such that they will fairly represent the whole work's quality.

3.3 The consultant shall furnish details about the testing equipment, skilled & unskilled persons with their qualifications & experience engaged by him for testing of samples.

3.4 The consultant shall provide methodology for Quality Control inspection and material testing to the concerned Executive engineer for prior approval.

3.5 The Consultancy them shall have considerable strength of expertise and established track record of providing quality control services.

3.6 The consultant shall appoint one manager with B.E. (Civil) with 5 years experience as Q.C. Engineer and two Asst. Managers with B.E. (Civil) with two years experience as Q.C. Engineers apart from other supporting technical and non-technical staff exclusively for this job at office level.

3.7 The name of the personnel to be deployed along with their CV's shall be furnished to the ESTATE OFFICER/ANGARU. The ESTATE OFFICER / ANGRAU will not consider substitute, except in case or unexpected delay on the starting date or for reasons of health or engineer leaving the firm.

3.8

- a. The consultant shall make unscheduled visits to ensure random surprise checks from time to time to the various works under construction subject to a minimum number of visits at frequencies as per monetary limits of the work shown in the table given below:
- b. The consultant shall take photographs at the site (Capturing salient view)
- c. The first report prior to work starts shall consist of site appraisal report including suitability/feasibility of work, adequacy of various provisions, reasons for delay if any, site preparation etc.
- d. During the work progress, the consultant shall check and report whether work has been executed according to the drawings, designs and specifications and in line levels as per approved drawings.
- e. During visits he will spend time on serving the contractors working practices also.
- f. He will prepare a report on his visit on the same day as the visit takes place. This report will be submitted without delay to the concerned Executive Engineering and Estate Officer. Through e-mail or hard copies received difficulties in an amicable manner.
- g. The points mentioned in the report shall be checked for compliance in subsequent visits and to be reported. The consultant shall make further visits as necessary to follow up particular areas of concern. One of the main objectives is to point out to the respective contractors how improvements can be made to the working practices and to resolve difficulties in an amicable manner.
- h. It should be remembered that time is the essence of the contract and that considerable judgment is required regarding quality aspects of the work. If contractors failed to heed advice or undertake work that is suspected which requires rectification or replacement, the matter is to be immediately reported to the field Executive engineering so that appropriate action can be taken on the agency under the terms of contract.

3.9 The Consultant shall take action for casting cubes during the concreting work of Buildings/pavements. On completion of the work, core tests shall be conducted invariably (irrespective of the outcome of cube test results) to assess the strength, thickness and Density of pavements.

3.10 The consultant shall develop and follow the computerized reporting and record management system and shall obtain prior approval of the same from ESTAE OFFICER/ANGRAU.

- 3.11 The consultant shall educate the field Engineers as well as the contractors regarding good construction practices for maintaining the Quality of the work. The field Executive Engineer concerned will ensure that the copies to Tech. Sanction/Administrative Sanction Agreement / Detailed drawings are made available to the consultant.
- 3.12 The consultant shall furnish work wise inspection report of each visit with all details, Highlighting problem area and its solution etc. to concerned Executive Engineering with a copy to the Estate Officer, ANGRAU. The consultant shall be responsible for bringing out in writing, to the notice of the concerned field Estate Officer, ANGRAU in any instances of deviations from accepted quality of construction materials, workmanship and general quality of works at appropriate stages of construction.
- 3.13 The consultant shall submit monthly reports of his observations and inspections, highlighting the progress of the work to the concerned Estate Officer, ANGRAU. The major defects/shortcomings/deviations observed during the visits shall be notified immediately to the concerned Executive engineer and also to the Estate Officer, ANGRAU.
- 3.14 The consultant shall communicate tentative inspection schedule to the concerned Deputy Executive Engineer whenever the core cutting is planned. The Consultant shall also communicate the schedule of lab testing of all material including steel Reinforcement, Concrete Cubes, Concrete Cores and BT Cores etc., well in advance to the concerned Executive Engineers well as Estate Officer, ANGRAU through electronic mail or SMS to enable them to witness the tests at random.
- 3.15 The consultant shall bring to the notice of Estate Officer, ANGRAU immediately, if any work is found being executed with change of specifications and / or change of site without approval of competent authority. If in his opinion it is found necessary to change specifications or modify design, the same shall be brought to the notice of concerned executive engineer and the Estate Officer, ANGRAU.
- 3.16 During the work execution, the RA Bills of the Integrated Administrative Building Civil contractor will be paid only after the fulfillment of the Q.C. reports.
- 3.17 After the work is completed, consultant shall issue final Quality Control report after due verification of various items of work. The final report shall consist of action taken report of site engineers if any on the earlier reports, lab and field test results or the finished products and general comments on overall quality of work based on visual inspection.
- 3.18 Reports of material testing at site and lab should be provided by the consultant to concerned Executive Engineer with a copy to the concerned Estate Officer, ANGRAU, for passing the RA bills.
- 3.19 In respect of RCC pipes, the Consultant shall visit the factory to witness the tests conducted and the results shall be incorporated in the inspection report. The consultant shall inform the Executive Engineer & the Estate Officer (whenever such inspections are planned. The

Executive Engineer/ the Estate Officer shall also visit the factory to witness such tests for some works selected at random.

- 3.20 In respect of RMC and Hot Mix Asphalt, the Consultant shall verify the batch Sheets and the same shall be mentioned in the inspection report. The Consultant shall endorse on such batch sheets that the verification is done. Scanned copies of all such verified documents shall be communicated to the concerned Executive Engineer, & the Estate Officer, ANGRAU.
- 3.21 The cement used in construction work Should be approved by the Executive Engineer should be fresh and not older than 3 months. It should be as curtained by the consultant and mentioned in the inspection report also.
- 3.22 From starting of work to the completion, photographs of work should be taken in every visit at different stages and enclosed with the respective inspection reports.
- 3.23 The Agency should furnish the completion plan to the concerned Executive Engineering will furnish the completion plan to the 3rd party consultant only after the Final Bill Abstract I finalized.

4. SCHEDULE FOR COMPLETION OF ASSIGNMENT

The time schedule for completion of job is one year from the date of assignment or extended from time to time by ANGRAU.

5. FORMATS

5.1 The work wise Inspection Reports shall include the following details

- a. Inspection Report No.
- b. Name of the work
- c. Estimated Cost
- d. Name of the construction agency
- e. Agreement no.
- f. Names of the In charge ANGRAU Engineers
- g. Observations, action taken on earlier observations, test results, remedial measures, suggestive measures.
- h. Standard formats meeting the requirements of respective IS/IRC/MORTH standards shall be used for test reports (field tests as well as laboratory tests).

While mentioning the strength/thickness/density etc., the target values & tolerances (if any) as per specifications/IS/IRC/MORTH standards shall be mentioned.

5.2 Monthly abstracts shall incorporate the following:

- (a) Report for the month of _____

- (b) No. of works inspected
- (c) No. of visits made
- (d) No. of Inspection reports submitted
- (e) No. of final reports submitted
- (f) No. of tests carried out category – wise
- (g) No. of major adverse remarks made
- (h) No. of tests failed to conform to standards
- (i) No. of ATRs received from field Executive Engineers
- (j) Summary of observations
- (k) Recommended remedial measures

Monthly report shall contain copies of inspection reports where major adverse remarks and copies of test reports where test results failed to conform to the standards.

5.3 Consolidated Quarterly Report shall incorporate all information of monthly abstracts for that quarter.

5.4 Annual Report shall incorporate the following:

- (a) Annual summary
- (b) Copies of all inspection reports
- (c) Copies of all test reports
- (d) Copies of all registers maintained

6.0 SUBMISSION OF REPORTS:

The consultant shall submit their reports from time to time as follows:

- 6.1 To the Concerned Executive Engineer all work wise Inspection Reports.
- 6.2 To the Estate Officer, ANGRAU – Final Reports and Fortnightly Abstracts

7. PAYMENT SCHEDULE

The payment to the consultant in consideration of the services offered by them shall be made along with the work bills of the construction Agency by depicting the same in the Memorandum of payments. For this purpose, the Consultant shall furnish Bank Account details where in accounts are operated and communicated the Account no. to the concerned Executive Engineer.

Payment shall be at the quoted percentage on the value of work done as per the work bill Rates agreed shall be firm till the completion of the contract inclusive of transportation, photography, documentation, stationary, accommodation, fuel, communication charges and other incidental expenses etc. complete.

8. Terms of Payment

The mode of payments to be made in consideration with the work performed by the Civil Contractor.

The mode of payment will be on par with the civil work done bills at the quoted percentage by the QA&QC firm.

GENERAL CONDITIONS OF CONTRACT

1. GENERAL PROVISIONS

1.1. Definitions

Unless the context otherwise requires, the following terms whenever used in the Contract have the following meanings

- a. ANGRAU means Acharya N.G. Ranga Agricultural University.
- b. "Applicable Law" means the laws of India and the state Andhra Pradesh.
- c. "ESTATE OFFICER" or "Employer" means Engineering wing head of ANGRAU or any authorized officer representing ANGRAU.
- d. " IAB" means Integrated Administrative Building at ANGRAU, Lam, Guntur.
- e. "Consultant" means the agency which has entered into contract with ANGRAU to provide 3rd Party Quality assurance & Quality control services.
- f. "Contract" means the Contractor signed by the Parties, to which these General Conditions of Contract (GC) are attached, together with all the documents of such signed Contract;
- g. "GC" means these General Conditions of Contractor;
- h. "Government" means the Government of India or Government of Andhra Pradesh as appropriate to the context;
- i. "Local currency" means Indian Rupees;
- j. "Party" means the ESTATE OFFICER or the Consultants, as the case may be, and Parties means both of them;
- k. "Personnel" means persons hired by the Consultants or by any Sub Consultant as Employees and assigned to perform the Services or any part thereof;
- l. "Services" means the work to be performed by the Consultants pursuant to this contract as described in ToR

1.2 Law Governing the Contract

This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law

1.3 Language – English

1.4 Notices

Any notice, request or consent made pursuant to this contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the party to whom the communication is addressed as indicated in the agreement.

1.5 Authorized Representatives

Any action required or permitted to be taken, and any document required or permitted to be executed, under this contract by the ESTATE OFFICER or the Consultants shall be taken or executed by the authorized representative of consultant.

- 2.0 COMMENCEMENTS, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT.
- 2.1 Commencement of Services, on par with the civil construction of the Integrated Administrative Building.
- 2.2 Modification of the terms and conditions of this contract, including any modification of the scope of the services or the contract price, may only be made by Written agreement between the ESTATE OFFICE and the consultant.
- 2.3 Force Majeure
- 2.3.1 The Terms and conditions mutually agreed upon this contract shall be subject to Force Majeure the Consultants shall begin carrying of the services after issue of work order or signing the contract on par with the civil.
- 2.3.2 Neither ESTATE OFFICER nor the consultant shall be considered in default in the performance of its obligations here under for such period, if such performance is prevented or delayed because of war, hostilities, revolution, civil commotion, general strike, epidemic, accident, fire, wind, flood, earthquake or because of any law or order proclamation, regulation or ordinance by any government or of any sub division thereof or an order by court of law, any act of god and state or any other cause whether of similar or dissimilar nature beyond the reasonable control of the party affected.
- 2.3.3 Should one or both the parties be prevented from fulfilling their contractual obligations by a state of Force majeure lasting continuously for a period of one month, the parties shall consult with each other regarding future implications on this contract.
- 2.3.4 In the event of Force Majeure both parties shall put in their best efforts towards resumption of the works at the earliest and shall put in their best efforts towards mitigating the cost incurred by the other party.
- 2.4. Termination by the ESTATE OFFICER
- 2.4.1.
- a. The ESTATE OFFICER may terminate this contract, by less than thirty (30) days written notice of termination to the consultants, to be given after the occurrence of any of the events specified in paragraphs (a) through (d) below if the consultants do not remedy the failure in the performance of their obligation under the contract, within thirty (30) days of receipt after being notified or within such further period as the ESTATE OFFICER may have subsequently approved in writing.
- b. If the consultants become insolvent or bankrupt.
- c. If the consultants, in the judgment of the ESTATE OFFICER has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

- d. If, as the result of force majeure, the consultants are unable to perform a material portion of the services for a period of not less than thirty (30) days.

For the purpose of this clause

“Corrupt Practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the selection or in contract execution.

“Fraudulent Practice” means misrepresentation of facts in order to influence a selection process or the execution of contract to the detriment of the ESTATE OFFICER and includes collusive practice among consultants (prior to or after submission of proposals) designed to establish price at artificial non-competitive levels and to deprive the ESTATE OFFICER of the benefits of free and open competition.

2.4.2 By the Consultants

The consultants may terminate this contract, by not less than thirty (30) days written notice to the ESTATE OFFICER, such notice to be given after the occurrence of any of the events specified below:

If, as the result of force majeure, the consultants are unable to perform a material portion of the services for a period of not less than thirty (30) days, If the ESTATE OFFICER do not remedy a failure in the performance of their Obligations under the contract, within thirty (30) days of receipt after being noticed or within such further period as the consultancy may have subsequently modified in writing

2.4.3 Payment upon Termination:

If the contracts terminated under clause 2.4.1(a) to (c), all amounts due to the consultants till the date of termination including bid security will be confiscated.

If the contract is terminated under clause 2.4.1(d) or 2.4.2, all amounts due to the consultants till the date of termination and bid security will be released.

3.0 OBLIGATIONS OF THE CONSULTANTS

3.1 General

The Consultant shall perform the Third Party Control Services for all works as specified by the ESTATE OFFICER. The consultants shall perform the services and carry out their obligations here under with all due diligence, efficiency and economy, in accordance with generally accepted professional Techniques and practices methods.

The Consultants shall always act, in respect of any matter relating to this contractor to the services, as faithful advisers to the ESTATE OFFICER.

The consultants shall take all steps to take action in accordance with the agreement of works contract between ANGRAU and work contractor.

3.2 Conflict of Interests

The consultancy fee of the consultants pursuant to clause 5 shall constitute the consultants sole consultancy fee in connection with this contract or the services, and the consultants shall not accept for their own benefit any trade commission, discount or similar payment in connection with activities pursuant to this contract or to the services or in the discharge of their obligations under the contract.

3.3 Confidentiality.

The consultants, and the personnel of either of them shall not, either during the term or within on (1) year after the expiration of this contract, disclose any proprietary , or the ESTATE OFFICERs business or operations without the prior written consent of the ESTATE OFFICER.

3.4 Consultants action requiring ESTATE OFFICERs Prior Approval

The consultants has to obtain prior approval from the ESTATE OFFICER

- i) For conducting special tests at any recognized laboratories at no extra cost and owning the responsibility for the correctness of the report
- ii) For engaging any retired/ in service Government engineers of Telangana / Andhra Pradesh.

3.5 Reporting System

The consultants shall submit the test reports with their remarks directly to the ESTATE OFFICER/ ESTATE OFFICERs representative as per TOR.

The consultants would collect the information from the project site through detailed formats by carrying out relevant tests and base information along with data will be submitted to the ESTATE OFFICER/ ESTATE OFFICER's representative.

All the information, work wise, would be documented in a register.

- 3.6 Documents prepared by the consultants will be the property of the ESTATE OFFICER. All reports and other documents submitted by the consultants would remain the property of the ESTATE OFFICER.

4.0 CONSULTANTS PERSONNEL

As per the terms of reference, adequate manpower would be deputed on the project site to carryout necessary tests and preparation of reports. The consultant would depute adequate manpower and other resources at respective location based on work load and specific requirement. All the liabilities of manpower working on the project would be with consultant.

5.0 PAYMENT TO THE CONSULTANTS

The payment to the consultant along GST would be made to the consultant as specified in the payment schedule of TOR as per the preventing acts.

6.0 SETTLEMENT OF DISPUTES

Any dispute arising out this contract, which amicably not settled between the parties, to solve it initially same would be presented to the committee comprising Special Officer/Comptroller, ESTATE OFFICER and consultant.

If the dispute is not resolved, in that case it shall be referred to adjudication/arbitration in accordance with Indian arbitration and conciliation Act 1996.

7.1 Consultancy Fee:

The consultant's fee for the Quality Control services will be paid at the approved rate on the value of work executed at site.

7.2 GST

Only GST will be paid extra. Any other taxes applicable shall be borne by the consultant only from his consultancy fee.

7.3 Payment Schedule:

The Consultant shall raise the invoice duly showing the Consultancy fee and separately along with final report certifying the quality of work. The ESTATE OFFICER would make the payment to consultant along with the work bill of Construction Agency.

7.4 Standard deduction: Mandatory Income Tax as applicable will be deducted from the consultancy fee and a certificate will be issued to this effect.

8.0 Indemnity:

In case the quality of any work is found inferior during the Quality check by the ESTATE OFFICER's QC wing or State Vigilance department or by any authority where the consultants have passed satisfactory remarks in their inspection reports, the entire consultancy fee including service tax will be recovered from the consultant apart from a penalty of 10% of consultancy fee. The consultant shall execute indemnity bond to this effect.

9.0 Reporting System

Documentation of yearly work wise final sets of reports along with photographs taken before, during and after execution with both soft and hard copies in three sets would be submitted to the ESTATE OFFICER after completion of financial year or the job whichever is earlier.

10.0 Other Conditions:

10.1 The Consultant's reporting shall be of recommendatory nature informing the ESTATE OFFICER about the quality of materials, based on results and field observations.

10.2 The construction schedule of various works for which quality inspection is required will be given to the consultants by the respective Executive Engineer 15 days in advance . The program of critical activities to be

executed for the consequent month will also be given 15 days in advance.

10.3 In case of emergency, consultant will have to submit specific report of that concerned work as indicated by the ESTATE OFFICER.

11.0 Period of Agreement:

15 months from the date of entering into agreement and can be extended to such duration as felt by ESTATE OFFICER from time on mutual agreement. By the both the parties.

SPECIAL CONDITIONS OF CONTRACT

1.0 Brief Description of Task:

This task involves assisting the ESTATE OFFICER in ensuring good quality of construction for the works being taken up for the Integrated Administrative Building at ANGRAU, Lam, Guntur.

The Scope comes all civil works pertaining to IAB, ANGRAU, Guntur with ECV up to 83.00 crores.

For ensuring good quality of construction and improving efficiency, it is proposed to provide third party quality assurance through an independent agency.

3.0 SCOPE OF SERVICES

The tasks of consultants are:

- i) Carry out all pre construction QA Checks
- ii) Carry out all QA checks during Construction
- iii) Carry out all post construction QA checks

The role of Quality Assurance consultant shall be conducting detailed checks of activities of construction from the starting stage to the finishing stage. This would involve collection of samples and arranging testing. The consultant would be reporting to the concerned officer's level of through inspection report and suggesting interaction with various authorities as and when required. All the tests and quality assurance inspection would be conducted as per the laid down specification.

- a. Establishment of QA and QC laboratory at IAB worksite. The Q.A. Reports in technical, systematic informative and qualitative manner.
- b. The team would be working at the Integrated Administrative building construction site.
- c. The test conducted by Quality Assurance Consultant is in addition to the statutory tests on materials to be done by the contractor.

INDICATIVE TEST LISTS

REQUIREMENTS

An indicative list of tests on material and workmanship is listed here, which is to provide guidance to the consultant. This list is not exhaustive all the necessary required tests on materials in accordance with contract documents, relevant specification and good engineering practice will need to be carried out to ensure the objective of quality inspection, which is to ensure that the works are carried out in conformity with required standards and specifications.

A.CIVIL WORKS

The main materials to be inspected are as follows:

- Reinforced concrete
- Building works & service appurtenances and associated works

1.Reinforced Concrete

The relevant tests are included in the standard specification: they shall include but not be limited to the following.

Test For Cement Aggregates

Cement	1.Consistency test
	2.Initial and final setting time test
	3.Compressive strength test
	4. Soundness test
	5.Fitness test
Coarse aggregate	1.Sieve analysis test
	2.Flakiness index test
	4.Water absorption test
	5.Aggregate impact value test
	8.Specific gravity
Fine Aggregate	1.sieve analysis test
	2.Silt content test
	3.Specific gravity
	4.Uniformity co-efficient
Test of water	1.Suitability for use in concrete e.g. PH. etc
Concrete	1.Cub test
	2.Slump test
Mortar test	Chemical analysis determination of ingredient proportion.

Test for Reinforcement

Reinforcement Steel	1.Tensile test -0.2% proof Stress
	2.Bend test ultimate strength and % of elongation.
	3.Rebend test

Tests for Reinforced Concrete Members

	1.Ultrasonic pulse velocity test
	2.Rebound hammer test
	3.Photometer studies
	4.pile integrity test

In certain cases extraction of cores shall be carried out

2.Building Works

Structural steel	1.Tensile test
	2.Bend test
	3.Thickness of galvanizing
Bricks	1.Compressive Strength test
	2.Water absorption test
	3.Efflorescence test
	4.Dimensional tolerance
Blocks	1.Compressive Strength test
	2.Water absorption test
	3.Density test
Joinery and wood	
Tiles	1.Water absorption test
	2.Wet transverse strength test
	3.Abrasion/water resistance test
Ceramic tiles	1.Water absorption test
	2.Wet transverse strength test
	3.Abrasion/water resistance test
	4. Crazing test
Galvanized Sheetting	1.Thickness of Sheets
	2.Thickness of galvanizing
Waterproofing compounds	1.Tests for permeability and compatibility
Paints	1.Performance tests
	2.Thickness
Plumbing and sanitary fixtures	1.Dimesinal verification ,physical examination and relevant test.

2.Quality Monitoring during construction

During the course of construction, independent Unannounced visits shall be made to check the quality of construction. The visits shall be made at the following stages:

Foundation Stage

- Checking the foundation with respect to the soil reports and its suitability and as bearing strara
- Dimensional verification of selected footing
- Checking the layout marking and center lines, at random
- Checking the reinforcement fabrication, at random
- Checking the concreting arrangements and witnessing concreting of a few footing at random.

Plinth Stage

- Checking the quality of stone masonry with emphasis to quality of stones, joints, joint materials, etc
- Checking the reinforcement fabrication of plinth beans at random
- Checking the quality of concrete in plinth beams, at random
- Checking at adequacy and compaction of floor filling, at random

Lintel Stage

- Checking the quality of stone masonry with emphasis to joints, joint mortar, curing, etc.
- Checking the reinforcement fabrication of lintels, at random
- Checking the quality of concrete in lintels

Roof stage / Slab Stage

- Checking the quality of shuttering and formwork, with emphasis online sand levels, joints and safety considerations
- Checking the reinforcement fabrication of selected panels
- Checking the arrangements for concreting, vibration and curing
- Checking the concrete while concreting, with respect to mix proportion, w/c ratio and compaction. Casting independent set of cubes for verification of strength
- Checking steel sheet fabrication for roof, roofing sheets and fencing and fixings

Finishing Stage

Checking the quality of flooring with respect to levels and smoothness at random

- Checking the door and window opening locations
- Checking the quality of joinery with respect to workmanship and fixtures, at random
- Checking the plaster in walls and ceiling with regard to proportions, line and level and curing at random
- Checking the finishing works at random such as painting, doodling, fixing of ceramic tiles, fixing of sanitary fixtures, steel grill works, etc.

The Quality Control checklist following the verification done is appended at Annexure

Quality Control Check List-1 Preliminary Stage				
Name of work :				
Division:				
Subdivision:				
Section:				
S.No.	Specification of Event	Whether verification done	Dated Initials By Consultant	Remarks
1	2	3	4	5
1	The Possession of site belongs to ANGRAU	YES/No		
2	The Land measurements and fixing boundaries are verified	YES/No		
3	Layout is verified at Site.	YES/No		
4	Layout needs modification (if yes give details).	YES/No		
5	Soil classified in the Estimate and design is correct. (if no, give the revised SBC).	YES/No		
6	SBC test is conducted.	YES/No		
7	Water source is available at site	YES/No		
8	Test for water quality is conducted.	YES/No		
9	Foundation Designs are verified.	YES/No		
10	Modification of Design are found necessary (If yes, give details).	YES/No		

CHECK LIST -2

S.No.	Specification of Event	Whether verification done	Dated Initials By Consultant	Remarks
1	2	3	4	5
1	LEVELS/ Contours are plotted	YES/No		

	on the Layout plan.			
2	Yard levels/Gradients are finalized.	YES/No		
3	Basement levels of Compound wall are finalized.	YES/No		
4	Plinth levels of structures are finalized.	YES/No		
5	Disposal System of Storm water is finalized.	YES/No		
6	Effluent disposal from septic tank to the source with levels is finalized.	YES/No		
7	Proper approach road to the site is formed.	YES/No		
8	Application for obtaining the Statutory permission is submitted.	YES/No		
9	Mark out is given for all the structures.(If no, Give reasons)	YES/No		
10	Marking pillars are constructed before the commencement of Earth Work Excavation.	YES/No		
11	Marking pillars are constructed to equal level	YES/No		
12	There is no obstruction to keep the work in progress	YES/No		

CHECK LIST -3

S.No.	Specification of Event	Whether verification done	Dated	Remarks
			Initials By Consultant	
1	2	3	4	5
A) EARTH WORK EXCAVATION				
1	Verified the center lines at the bottom of the Foundation.	YES/No		
2	Soil classification met with is suitable for the designed Foundation.	YES/No		
3	Foundation are made as per sanctioned estimate	YES/No		
4	Foundations are made as per structural Design.	YES/No		
B) BED UNDER FOOTING				
1	Bed Horizontality to the center line is ensured.	YES/No		
2	Stepped Foundations are adopted according to the slope	YES/No		
3	Leveling, Filling materials are	YES/No		

	as per specifications.			
4	CC bed width, Thickness are correct as per drawing	YES/No		
5	Top Finishing is done satisfactorily.	YES/No		
6	Approved samples of aggregates are preserved at site.	YES/No		
C) FOOTINGS				
a) RCC FOOTINGS				
1	Verified the center line at the base.	YES/No		
2	Alignment is Correct.	YES/No		
3	Aggregates and water used are as per Specification.	YES/No		
4	Steel reinforcement, Overlaps, Anchorage is verified.	YES/No		
5	Clear cover to the steel is verified.			
6	Size, shape and thickness of footing are correct.	YES/NO		
7	Mechanical Vibration is done.	YES/NO		
8	Samples of CC Cubes are taken for test from the work component.	YES/NO		
9	Curing is done as per Standards	YES/NO		
D) BASEMENT				
1	Basement levels are fixed as approved and marked	YES/NO		
2	The Alignment and the plumb of Basement walls is correct	YES/NO		
3	Bond stones are used in stone masonry work as required	YES/NO		
E) PLINTH BEAMS				
1	The Alignment and levels are correct.	YES/NO		
2	The Plinth Beam is cast on firm Base.	YES/NO		
3	Reinforcement of Plinth Beam and hanger bars provided	YES/NO		
4	Check for secondary beams and hanger bars provided			
5	All materials used are as per Specifications.	YES/NO		
	Curing is done satisfactorily	YES/NO		
F) GENERAL IN BASEMENT				

1	Outlets for water supply and sanitary lines are provided.	YES/NO		
2	Basement filling is done with the approved specified materials and in layers.	YES/NO		
3	Compaction of the basement filling is done properly with water	YES/NO		
4	Excavation trenches on either side of Basement are filled and comp-acted properly	YES/NO		
5	Basement filling is made to the required level and consolidated well to receive the flooring work.	YES/NO		

CHECK LIST-4

S.No	Specification of Event	Whether Verification Done	Dated Initials By	Remarks
			Consultant	
1	2	3	4	5
A) BRICK WALLING				
1	Alignment, plane and Plumb are correct	YES/NO		
2	Quality of materials is approved.	YES/NO		
3	Representative samples of materials are preserved at site work.	YES/NO		
4	Horizontalities of masonry layers is ensured.	YES/NO		
5	Mortar joints are verified, filled satisfactorily and joints raked.	YES/NO		
6	Verify Grooves are made at the real joints between concrete and masonry elements.	YES/NO		
7	Bed Blocks below Lintels are provided	YES/NO		
8	Sill levels and lintels levels are verified	YES/NO		
9	Curing is done satisfactorily.	YES/NO		
10	Check position of joinery whether middle or flush to inside or outside	YES/NO		

B) COLUMNS				
1	The Alignment and verticality of columns are checked.	YES/NO		
2	The face of columns in plane, joints between successive stages of castings are checked	YES/NO		
3	Reinforcement details such as Overlaps, position and cover to reinforcement are checked.	YES/NO		
4	Sizes and Specifications of column Boxes are checked.	YES/NO		
5	Honey combs in concrete are found after removal of boxes	YES/NO		
6	Curing process at site is ensured for continuous curing.	YES/NO		
7	Treatment for Expansion joint is attended	YES/NO		
C) LINTELS / SUN SHADES				
1	Lintels are supported on Bed blocks	YES/NO		
2	Reinforcement is placed in correct location with chairs.	YES/NO		
3	Cover of reinforcement is ensured.	YES/NO		
4	Bottom level and plane is checked	YES/NO		
5	Rainwater lets outs / spouts are provided to drain off. And water band below surface	YES/NO		
6	No water stagnation is observed over chajjas.	YES/NO		

CHECK LIST – 5

S.NO	Specification of event	Whether verification done	Dated Initials By	
			Consultant	
1	2	3	4	5
DOORS, WINDOWS, ROLLING SHUTTERS AND RCC & WELD MESH JALLIES				
1	Size of Doors, Windows & Ventilators are checked	YES/NO		
2	The Doors and windows are confirming to the Specifications.	YES/NO		

3	Doors, Windows and Ventilators are correctly located and verify whether to open inside or to outside	YES/NO		
4	Checked the line and plumb including the standard of hold fasts and Bed blocks to hold fats	YES/NO		
5	Checked the section, gauge in case of steel Windows and rolling shutters	YES/NO		

6	Checked the glass used (plane or pin headed), Thickness, wave free and fixing with standard putty.	YES/NO		
7	Checked the specifications and Thickness of RCC Jallies	YES/NO		
8	Checked the specifications including Gauge, Size of Weld mesh and frames as per estimate, Agreement and plan.	YES/NO		
9	All Fixtures are provided as per Specification.	YES/NO		
10	Primary coat of paint is given or not	YES/NO		
11	Free Movement of Shutters of Doors, windows, Ventilators and Rolling Shutters are checked	YES/NO		

CHECK LIST – 6

S.No	Specification of Event	Whether Verification Done	Dated Initials By	Remarks
			Consultant	
1	2	3	4	5
A) CENTERING / SHUTTERING :				
	Checked for			
1	Supports	YES/NO		
2	Planks	YES/NO		
3	Joints	YES/NO		
4	Cross Struts	YES/NO		
5	Alignment of Beams	YES/NO		
6	Level of Beams and Slab	YES/NO		

7	Slab Centering slope	YES/NO		
8	Section of Beams as per design	YES/NO		
B) REINFORCEMENT DETAILS				
1	Verified the sections, main reinforcement of Columns with respects to the structural drawing.	YES/NO		
2	Verified the stirrups spacing, and check for double spacing.	YES/NO		
3	Verified the Sections, Reinforcement of Beams with respect to structural drawing.	YES/ NO		
4	Verified the sections, reinforcement of slab with respect to structural drawing.	YES/ NO		
5	Checked the over laps and anchorage lengths.	YES/ NO		
6	Checked the Column extension over laps beyond slab level.	YES/ NO		
7	Verified the extra or additional reinforcement bars.	YES/ NO		
8	Verified the Chairs below cranks and top bars.	YES/ NO		
C) GENERAL : Verified				
1	Position of Electrical conduits	YES/ NO		
2	Fan Hooks with respect to positions.	YES/ NO		
3	Down take pipe holes	YES/ NO		
4	Ducts/ Openings and in Low slabs	YES/ NO		
5	Expansion joint including Mastic pad specification.	YES/ NO		
D) MATERIALS				
1	Checked the Aggregate quality and quantity	YES/ NO		
2	Checked the Cement quality and Quantity	YES/ NO		
3	Verified the water source, availability and fitment for use.	YES/ NO		
4	Checked the proper aggregate for Impervious coat and Quantity of aggregate and Cement quantity for impervious coat at before starting of the slab.	YES/ NO		
E) MACHINERY/ TOOLS				
1	Verify the diesel requirement	YES/ NO		
2	Verify for the continuous water supply arrangement.	YES/ NO		

3	Verified the usage of CC Mixture and for any leakages in the Mixture drum	YES/ NO		
4	Verified the usage of Vibrator (Pin/Pan) according to the nature of work.	YES/ NO		
5	Verify for the required size of the vibrator pin for the placement	YES/ NO		
6	Verify for required concrete admixture for slab	YES/ NO		
7	Ensured thickness pegs or benches or Thickness checking gauges	YES/ NO		
8	Slab top finished levels are verified with leveling instrument	YES/ NO		
F) PROCESS CONTROL : Verified				
1	Mixing Platform Stones or Plate	YES/ NO		
2	Conveying Scaffold	YES/ NO		
3	Measuring Boxes	YES/ NO		
4	Water storage arrangements	YES/ NO		
5	Cube Moulds	YES/ NO		
6	Optimum Water Cement ratio	YES/ NO		
7	Bleeding of water over concrete work	YES/ NO		
8	Usage of Admixtures or Plasticizers	YES/ NO		
9	Uniform Laying of Concrete	YES/ NO		
10	Finishing and Rendering of Slab	YES/ NO		
11	The Load Register	YES/ NO		
12	Variance in consumption of materials with respect to theoretical requirement.	YES/ NO		
G) SAMPLING				
1	Specimen samples are taken as per standards	YES/ NO		
2	Specimen samples are sent for testing within the specified period	YES/ NO		
3	The specimen test results are within the tolerance limits for acceptance	YES/ NO		
H) CURING				
1	Arrangements are done for continuous Curing.	YES/ NO		
2	After removing of centering, Dampness or Leakages are found during rainy day.	YES/ NO		
I) IMPERVIOUS COAT				
1	Plastering over the Roof Slab is done with Water Proofing treatment.	YES/ NO		

2	Roof Slab is neatly finished by removing left over mortar etc.	YES/ NO		
3	Verify for making galatas at parapet wall	YES/ NO		
J) WATER LET OUTS				
1	Water let outs are fixed properly so as to clear off the water from Roof Slab surface.	YES/ NO		
2	Whether any gratings etc. are required?	YES/ NO		

CHECK LIST – 7

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
1	Basement and sides filling is conforming to specifications.	YES/ NO		
2	The compaction is attained to the required degree.	YES/ NO		
3	Verified the flooring specification and pattern conforming to drawing and provision in Estimate/ Agreement.	YES/ NO		
4	Checked the Joints in Flooring, Level and plane of the surface	YES/ NO		
5	The classification of \Flooring materials are as per specification.	YES/ NO		
6	Checked the Size, Thickness and Uniformity of the Skirting as per specification.	YES/ NO		
7	Dead mortar etc. on the Flooring is removed.	YES/ NO		
8	Curing is done satisfactorily.	YES/ NO		
9	The Flooring is ready for use.	YES/ NO		

CHECK LIST- 8

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
1	All concealed works like Electrical, Water supply & Sanitary lines are completed before plastering.	YES/ NO		
2	Verified the cracks, rectifications to be done in Masonry works before taking up the Plastering work.	YES/ NO		
3	Checked the quality of Sand used for Plastering.	YES/ NO		
4	The correct sieve to sit the type of	YES/ NO		

	Plastering is used.			
5	Plane of the Plastered surface and texture is ensured.	YES/ NO		
6	Irregular Joints, Patches in the Plastering work are avoided.	YES/ NO		
7	Grooves are made exactly covering the joints between Concrete and Masonry components.	YES/ NO		
8	Checked the Size, Thickness and uniformity of the Ceiling borders.	YES/ NO		
9	Finishing of Plastering surface is satisfactory.	YES/ NO		
10	Curing is ensured.	YES/ NO		
11	Dead mortar from Doors, Windows & Flooring is removed.	YES/ NO		
12	Final checkup is done and orders are issued to take up the Colour scheme work	YES/ NO		

CHECK LIST- 9

S.No.	Specification of Event	Whether Verification Done	Dated initials	Remarks
			By Consultant	
1	2	3	4	5
1	Checked the finished works including preparing the surface.	YES/ NO		
2	Verified the specification of the full items as in Estimate / Agreement.	YES/ NO		
3	The standard materials and make of Snowcem, Distemper & Paints from the Estimate/ Agreement are used.	YES/ NO		
4	Primary Ase coat is made as per specification.	YES/ NO		
5	Acceptance by the Competent Authority on the Colour Shade is obtained.	YES/ NO		
6	Uniformity of surface, avoiding the lines, Brush marks is ensured	YES/ NO		
7	Cleanig of Flooring, Doors, Windows etc. are attended to remove the excess and over drops, spillover quantity etc. over the window glasses.	YES/ NO		
8	Checked the free movement of hinges and Tower Bolts of Doors and Windows.	YES/ NO		
9	Final checkup on the	YES/ NO		

	acceptance of Colour scheme is attended.			
CHECK LIST-10S.No.	Specification of Event	Whether Verification Done	Dated initials By Consultant	Remarks
1	2	3	4	5
	A) PRE INVESTMENT STAGE			
1	The Source is identified for drawal of water.	YES/ NO		
2	The Source is within the RTC premises.	YES/ NO		
3	The Quality of Water is tested.	YES/ NO		
4	The water is Potable	YES/ NO		
5	The Estimate and Plan for carrying out the work is approved.	YES/ NO		
6	The yield is sufficient to the requirement/ demand.	YES/ NO		
	B) INVESTMENT STAGE			
1	The approved drawing obtained from the Competent Authority is put on Execution.	YES/ NO		
2	Pumping arrangement, if necessary, is made.	YES/ NO		
3	Electrical supply is available to the Pumping house.	YES/ NO		
4	Water storage arrangements are made and completed.	YES/ NO		
5	The materials used on the works for the Water supply are of approved quality.	YES/ NO		
6	The Distribution lines are laid with the approved make and materials.	YES/ NO		
7	Pressure head is checked at all outlets and found satisfactory.	YES/ NO		
8	Any deviations are found necessary in the Distribution system? If so, the approval of Competent Authority is obtained.	YES/ NO		
6	The Concealed Pipes are protected from Corrosion.	YES/ NO		
	C) OPERATION STAGE			
1	The work is completed satisfactorily.	YES/ NO		
2	Water testing for leakages in the Suction and Distribution lines is carried out.	YES/ NO		
3	Any leakage at Pipe jointing and around Specials are found? It	YES/ NO		

	so, whether all the Leakages in the run –off are arrested.			
4	Completion Drawing showing the executed lines is prepared and recorded for future guidelines.	YES/ NO		

CHECK LIST- 11

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
	A) PRE INVESTMENT STAGE			
1	The eventual outfall is identified to dispose Sewage.	YES/ NO		
2	The Levels are taken and finalized for carrying out the Sewage system.	YES/ NO		
3	Any Pipe lines are exposed above Ground level? If yes, precautions taken.	YES/ NO		
4	The Estimate and Plan for carrying out the work is approved by the Competent Authority.	YES/ NO		
	B) INVESTMENT STAGE			
1	The materials used on the works for Sewage disposal are of approved quality.	YES/ NO		
2	Manhole chambers are constructed as per approved drawing and specification.	YES/ NO		
3	Work on the Septic tank is completed satisfactorily as per standards.	YES/ NO		
4	Slopes of Sewage lines are provided as per standards for free flow of Sewage/ Sullage.	YES/ NO		
5	All the joints of CI/ SWG pipe lines work are provided as per specification and standards.	YES/ NO		
6	The Sanitary disposal lines are protected from damages and disturbance due to surface loads.	YES/ NO		
7	The work is completed satisfactorily.	YES/ NO		
	C) OPERATING STAGE			
1	The Ultimate disposal point is connected.	YES/ NO		
2	Any Leakages at Pipe Jointing are found? If yes, whether all the Leakages in the Pipe line are	YES/ NO		

	arrested?			
3	There is no stagnation of Sewage in the Manhole Chambers and pipeline work.	YES/ NO		
4	Completion drawing showing the executed work is prepared and recorded for future guidelines.	YES/ NO		

CHECK LIST- 12

S.No.	Specification of Event	Whether Verification Done	Dated initials By Consultant	Remarks
1	2	3	4	5
	A) BASE			
1	Consolidation of Sub grade is satisfactory.	YES/ NO		
2	The Gradient of Sub grade suits to provide the WBM surface.	YES/ NO		
3	If not, the Gradient of Sub grade is modified to take up the work.	YES/ NO		
	B) MATERIALS & PLANNING			
1	The specification of materials collected are according to the specifications of Estimate/ Agreement.	YES/ NO		
2	Representative Sampling of materials are preserved at site office.	YES/ NO		
3	The Size, Shape & Quality of Soling stones (if provided in the work component) are satisfactory.	YES/ NO		
4	The size of metal collected is within the accepted limits.	YES/ NO		
5	Dis-allowed material stacks are not existing at site of work.	YES/ NO		
6	Finished levels with suitable Gradients are marked on the plan.	YES/ NO		
	C) PROCESS OF WORK			
1	The Marking level pegs are inserted in Ground for check up.	YES/ NO		
2	The placement of Soling stones (such as broader face as base),Packing& Voids filling are satisfactory.	YES/ NO		
3	The Power rolling on Soling work is completed to the required level satisfactorily.	YES/ NO		
4	The levels of Metalling (at each course) including Spreading, Rolling is completed satisfactorily.	YES/ NO		
5	The Blindage material as specified in the Estimate/ Agreement is	YES/ NO		

	collected.			
6	The quantity of materials collected Vs. areas executed on the date of inspection are tallied.	YES/ NO		
7	The compaction of metalling is done to the required degree.	YES/ NO		
8	Watering is done as per specification satisfactorily.	YES/ NO		
9	The surface of WMB road is satisfactory and fit to receive wheel loads.	YES/ NO		

CHECK LIST- 13

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
	C) BASE			
1	Consolidation of Sub-grade is satisfactory.	YES/ NO		
2	The Gradient of the Sub-grade suits to lay the CC pavement.	YES/ NO		
3	It not, the Gradient is modified to take up the work.	YES/ NO		
4	Plan showing the levels of existing Sub-grade and proposed CC pavement top surface is prepared & approval by the Competent Authority is obtained (if not, specify the reasons).	YES/ NO		
	B) MATERIALS			
1	Checked the Aggregates quality	YES/ NO		
2	Checked the Cement quality & availability.	YES/ NO		
3	Verified the Water source, availability and fitment for use.	YES/ NO		
4	Checked the Size, Strength and Line of the Form work.	YES/ NO		
5	Mastic pad and other specified Expansion joint Filler/ Paint as per specification is available at site of work.	YES/ NO		
	C) MACHINERY/ TOOLS			
	Verified the condition and use of the			
1	CC Mixer	YES/ NO		
2	Screed/ Pan Vibrator according to the nature of work.	YES/ NO		
3	Thickness pegs or benches.	YES/ NO		
4	Levelling instrument to check up the base & top finish levels.	YES/ NO		

	D) PROCESS CONTROL			
1	Mixing platform	YES/ NO		
2	Fixing of form work with reference to line & level.	YES/ NO		
3	Measuring boxes	YES/ NO		
4	Water storage arrangements	YES/ NO		
5	Cube Moulds	YES/ NO		
6	Water cement ratio is maintained	YES/ NO		
7	Bleeding of water over finished concrete is prevented	YES/ NO		
8	Admixtures or plasticizers are used.	YES/ NO		
9	Laying of concrete is done uniformly.	YES/ NO		
10	Finishing & rendering of pavement is done.	YES/ NO		
11	Continuity of plane in between panels is obtained.	YES/ NO		
12	Any honey combs are found? If yes, are they plugged.	YES/ NO		
13	Maintained the Load Register.	YES/ NO		
14	Verified the actual consumption of materials with respect to the theoretical requirements.	YES/ NO		
	E) SAMPLING			
1	Specimen samples are taken as per standards	YES/ NO		
2	Specimen samples are taken for testing within the specified period.	YES/ NO		
3	The specimen test results obtained are within the tolerance limits for acceptance.	YES/ NO		
	F) CURING			
1	Continuous arrangements for curing are made.	YES/ NO		
2	Pavement surface is cleaned and kept ready for use.	YES/ NO		
3	Cracks are not found either in the panels or edges.	YES/ NO		
	G) RAIN WATER DISPOSAL			
1	Surface water is stagnated on the pavement surface.	YES/ NO		
2	All the berms are leveled to avoid any damages to the edges.	YES/ NO		
3	Proper water outlets are fixed to drain off the surface water to avoid stagnation.	YES/ NO		
	H) TRAFFIC FLOW			
1	The CC Pavement is satisfactory and is fit to receive the traffic movement.	YES/ NO		

CHECK LIST- 14

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
	A) FOUNDATION			
1	Verified the center lines at bottom of foundations.	YES/ NO		
2	Soil classification met with is suitable for the designed foundation.	YES/ NO		
3	Verified the foundation details of CC pedestals for stanchions with respect to load disbursement, uplift and over turning movements.	YES/ NO		
4	Modifications of size/ depth of footing block is found necessary. If yes, give the details.	YES/ NO		
5	Aggregates & water used are as per specification.	YES/ NO		
6	Verified the length & dia of H.D bolts as provided in the Design / Agreement/ Drawing / specification.	YES/ NO		
7	Alignment, plane & plumb of CC blocks are verified and found correct.	YES/ NO		
8	Alignment & verticality of H.D bolts are verified and found correct.	YES/ NO		
9	Center lines of pedestals are checked.	YES/ NO		
10	Base plate level/ pedestal top level and garage CC floor levels are verified.	YES/ NO		
11	Either side offsets at CC pedestals are covered with masonry work.	YES/ NO		
12	The plinth level of Annexure rooms is 15 cm, above the finished surface of the garage c flooring, (if not give the reasons for deviation)	YES/ NO		
	B) STRUCTURAL STEEL WORK			
1	Verified the Drawing/ Estimate/ Agreement/ Specification for all the components.	YES/ NO		
2	Whether any modifications in specification are found necessary? (If so, give details)	YES/ NO		
3	Verified the Section/ Thickness of :			

	a) Base plate	YES/ NO		
	b) Gusset plate	YES/ NO		
	c) RSJ Stanchion	YES/ NO		
	d) Cleats	YES/ NO		
	e) Cap plate	YES/ NO		
4	Actual weight & gauge of all tubular/ angular components are verified and found in accordance with specification. (If no, specify the reasons and give details)	YES/ NO		
5	Checked all the Welding joints and are satisfactory.	YES/ NO		
6	All the structural roof components are stacked carefully and free from damages.	YES/ NO		
7	Verified the size & section of Tension members/ Compression members, Tie rods/ Bracings etc. and are in accordance with the design & specifications.	YES/ NO		
8	Primary coat with Red oxide paint (if specified) is done prior to the Erection.	YES/ NO		
9	Checked Line, Plane & Verticality of the Columns and Trusses.	YES/ NO		
10	Clearance around bolt holes & tightening of Foundation bolts, connecting bolts are ensured.	YES/ NO		
11	Base plates are supported on the pedestal free from any gaps/ undulations. (If not, give the details of packing material used).	YES/ NO		
12	The structure is erected and fixing of sheeting can be commenced.	YES/ NO		
	C) SHEETING			
1	Purlin spacing suit to the Correct size of the Sheets for Roofing.	YES/ NO		
2	Ensured the overlapping of sheeting to conform to the standards (specify the percentage of wastage of sheets).	YES/ NO		
3	Checked the size, dia. Of 'J'/ 'L' Bolts to suit the holdings and Bitumen/ GI washers for the Roof work.	YES/ NO		
4	Minimum Eaves projection is maintained.	YES/ NO		
5	Eaves line is maintained in straight line.	YES/ NO		
6	Fixing of bolts is done as per standard specification.	YES/ NO		
7	Ridges, Barge boards, North light curves (if specified basing on the	YES/ NO		

	plan) are properly fixed.			
8	AC sheets free from cracks, holes & damages before & after laying is verified.	YES/ NO		
9	The Alignment, section & jointing of Gutters (if provided) are verified.	YES/ NO		
10	Down take pipes provided are firmly fixed & free from damages.	YES/ NO		
11	Checked the sheets, gutters, down take pipes etc. against water leakages during rainy day.	YES/ NO		
12	If any leakages are found, mention the steps taken for arresting of leakages.	YES/ NO		

CHECK LIST- 15

S.No.	Specification of Event	Whether Verification Done	Dated initials By	Remarks
			Consultant	
1	2	3	4	5
	A) PRE INVESTMENT STAGE			
1	The source is identified for drawal of APDCL supply. Application form is submitted.	YES/ NO		
2	The source of power is classified as LT/ HT	YES/ NO		
3	A) The Estimate and Plan for carrying out the work is approved by the Competent Authority.	YES/ NO		
	B) If not, the reasons for non approval.	YES/ NO		
4	The applied Load is sufficient to the required Demand for	YES/ NO		
	A) College	YES/ NO		
	B) Research Station	YES/ NO		
	C) Storage shed	YES/ NO		
	D) Staff Quarters	YES/ NO		
	E) Offices	YES/ NO		
	F) Any other, specify	YES/ NO		
5	A) Electrical Inspector's approval is obtained for Drawings (only for HT works).	YES/ NO		
	B) Generators are installed where HT supply is available.	YES/ NO		
6	Case is processed for getting the approval to pay the necessary Fee to the APDCL.	YES/ NO		
	B) INVESTMENT STAGE			
1	The approved Drawing obtained from the Competent Authority is	YES/ NO		

	put on execution.			
2	Any deviations are found in the Distribution system.	YES/ NO		
3	If yes, the approval of Competent Authority is obtained.	YES/ NO		
4	The Chiselling for Electrical conduits are made in masonry work before Second coat of Plastering.	YES/ NO		
5	If not, reasons for.	YES/ NO		
6	PVC heavy duty ISI marked pipes are used.	YES/ NO		
7	Finishing on concealed pipe work is completed before second coat of Plastering.	YES/ NO		
8	The Gauge of the wire is within the standards as per Agreement.			
	a) 1 Sq. mm PVC Copper Wire	YES/ NO		
	b) 205 Sq. mm PVC Copper Wire	YES/ NO		
	c) 4 Sq. mm PVC Copper Wire	YES/ NO		
	d) 6 Sq.mm PVC Copper Wire	YES/ NO		
9	The work is completed satisfactorily as per IEE standards.	YES/ NO		
10	Leakage of Wiring is tested by Meggar and found no Leakage.	YES/ NO		
11	Wire joints are not provided in running main in Conduit pipe.	YES/ NO		
12	If jointing is necessary, J box with connection should be arranged.	YES/ NO		
13	Computer Wiring is done as per drawing approved.	YES/ NO		
14	Copper plate Earthing is completed as per standards for computer.	YES/ NO		
15	The Test Certificate is obtained from the system supervisor.	YES/ NO		
16	The Agreement consists only approved Fittings, Fixtures and Luminaries.	YES/ NO		
17	If not, reasons for deviation and approval from competent Authority is obtained and noted in remarks.	YES/ NO		
18	Materials used at the site are of approved make and as specified in the Agreement. (specify the exact manufacturing company name)			
	a) Transformers	YES/ NO		
	b) HT SFU	YES/ NO		

	c) Panel	YES/ NO		
	d) LT ACB	YES/ NO		
	e) MCCB	YES/ NO		
	f) MCBDB	YES/ NO		
	g) PVC pipe of 2 mm thick	YES/ NO		
	h) Flush type Switches	YES/ NO		
	i) Power Capacitor	YES/ NO		
	j) UG Cable with GI / Hume pipe	YES/ NO		
	k) Bus Duck/ Raising mains	YES/ NO		
	l) Fluorescent lighting fixtures with Electronic Ballast.	YES/ NO		
	m) HPSV fittings	YES/ NO		
	n) Ceiling Fans	YES/ NO		
	o) H/ D Exhaust Fans	YES/ NO		
	p) Main Switches, TPIC & DPIC	YES/ NO		
19	Cable route indicators are provided.	YES/ NO		
20	Cable duct as per IEE rules is provided.	YES/ NO		
21	Cable gland and lugs are provided for cable ends.	YES/ NO		
22	Earthing the installation is completed as per standards.	YES/ NO		
23	Final testing for wiring is done before charging with APDCL supply.	YES/ NO		
24	Final approval of Electrical Inspector is obtained for the work done (only for HT supply and generator installed where HT supply is available)	YES/ NO		
	C) OPERATION STAGE			
1	Electrical supply from APDCL to APSRTC and individual points are tested and found OK.	YES/ NO		
2	If not, rectification/ rewiring /replacement is done satisfactorily.	YES/ NO		
3	The job done is as per plan and handed over to the consumer / user on WW-97.	YES/ NO		
4	Completion drawing is prepared and kept for record.	YES/ NO		

SPECIFICATIONS

1.0 PREAMBLE

The technical specifications for various items of work contained herein shall be read in conjunction with the specifications mentioned for each item of work in bill of quantities part-I (Schedule-A) and also plans and drawings in part III.

2.0 GENERAL TECHNICAL SPECIFICATIONS

2.1 The following are the general technical specifications to be adopted for construction of buildings. Each item of work shall be executed according to the relevant standard specification number as described in the " Andhra Pradesh Standard Specification" (APSS) and Indian Standard (I.S) Specifications, including Water supply, Sanitary and Electrical Installations. In the absence of any definite provisions on any particular item of work in the aforesaid specifications in A.P.S.S., reference may be made to the latest codes and specifications of Indian Standards or Indian roads congress (IRC in case of Roads). Where even these are silent, the construction and completion of works shall conform to sound engineering practice as approved by Engineer-in – charge and in case of dispute arising out of the interpretation of the above, the decision of Engineer-in-charge shall be final and binding on the contractor.

3.0 GENERAL INSTRUCTIONS

3.1 Drawings, Instructions, Measurements

All works shall be done according to the detailed drawings and specifications, figured dimensions shall be followed. Measurement shall be taken of the actual work done but shall not exceed those marked on the drawings for payments.

3.2 Site Clearance and Demolition

The site shall be cleared of all trees, stumps, roots, brush wood, bushes and other objectionable materials. Useful and saleable material shall be the property of the Owner (A.P.S.F.C) and shall be stacked properly as directed by the Engineer- in- charge. The areas to be covered with embankments shall be stripped of top soil to required depths to expose acceptable founding strata. Top soil unsuitable for use in embankment construction and other fills shall be disposed off as directed. All combustible materials shall be stacked and burnt in locations sufficiently remote to eliminate all danger of fire hazards. All old concrete, brick works and drains which interfere with construction works shall be dismantled with the approval of the Engineer-in- charge duly taking all necessary precautions prescribed in safety specification.

Top soil which is suitable for use in construction work shall be stockpiled for later use. Other objectionable materials such as trash, debris, stones, brick, broken concrete, scrap metal etc., shall be disposed off as directed by the

Engineer. Payment for cutting and removal of trees, stumps, dismantling existing structure and stripping shall be regulated by the description in the schedule of Items or Section to of A.P.S.S.

3.3 Precision: The works shall be set to the highest precision of dimensions, levels, grades and lines as per designs and drawings using precise scientific equipments and measuring instruments.

3.4 Quality of Work:

To be the best quality: All the materials, workmanship, articles, Equipment, tools and plants should be of high and acceptable quality confirming to the standard specifications. All materials shall be new and of the kinds and quality describe in the contract.

3.5 Testing of works and materials

3.5.1 All materials used and works done shall be subject to approval of the Engineer-in-charge.

3.5.2 The 3rd party quality control agency shall arrange sufficiency in advance to test materials and portions of works in order to prove their sufficiently in advance to test materials and portions of works in order to prove their soundness and efficiency if required, including samples and supporting test results from the approved laboratory and any other documentary evidence from the manufacturer, whenever applicable, and indicate the types of materials and their respective sources. The delivery of materials at site shall commence only after the approval of the quality, grading and sources of the materials by the Engineer-in-charge.

3.5.3 The quality of all the materials approved shall be maintained throughout The period of the construction and periodical tests shall be carried out to ensure that it is maintained. The 3rd party quality control shall conduct tests at work site/approved laboratories and shall maintain test reports at site for cement, coarse aggregates, fine aggregates, water, steel, bricks and concrete at the following frequency: -

SI No.	Description of Materials	Frequency of test	Allowable limits
1.	CEMENT : (IS : 8112-1989)	One for each source of supply in a month	Shall not be less than 3500 sq. cm / gm
	a) Fineness		
	b) Setting time	-do-	Initial setting time shall not be less than 30 minutes and final setting time shall not be more than 60 minutes
	c) Soundness	-do-	Expansion (unaerated)

			shall be not more than 10 mm by "Le Chatelier" method; if it fails, expansion of aerated sample shall be not more than 5mm.
	d) Compressive strength of cement mortar cubes 1:3 (1 cement : 3 sand) by mass	-do-	Compressive strength for seven days shall not be less than 330 kg/ cm ² and compressive strength for 28 days shall not be less than 430 kg/ cm ²
2.	Coarse Aggregate: (IS383-1970) a) Gradation b) Aggregate impact value	One test for 15 Cum or at least on the day of concrete if concrete quantity is less than 15 cum Once for each source of supply or when ever change in texture is noticed	40 mm Metal : a) Sieve analysis :- 63 mm – 100% 40 mm - 85 to 100% 20 mm – 0-2%; 10 mm- 0.5% b)Flakiness Index : shall be less than 30% by weight 20 mm Metal : a) Sieve analysis :- Limits : 40 mm – 100% ;20 mm -95 to 100%; 10 mm – 25 to 55%; 4.75 – 0 to 10% b)Flakiness Index : Less than 25% c) Aggregate impact vaue: 20-40 (IS2386-1963)
Sl No.	Description of Materials	Frequency of test	Allowable limits
3.	FINE AGGREGATE : (IS 383- m1970) a) Gradation for concrete	One test for every 15 Cum.	Fineness Modules : Fine sand limit 2.2 to 2.6
	b) Gradation for masonry	At least once on the day of work	Medium sand limit 2.6 to 2.9
	c) Gradation for finishing	-do-	Coarse sand limit 2.9 to 3.2
	d) Bulkage	Three for each day of work i.e., Morning noon and evening	b. Silt content : Shall be less than 4 % by weight.
	e) Silt Content	At least once on the day of work	
4.	WATER : Chemical test	One test for each source	The water quantity shall be as per clause 5.4 of IS: 456-2000. The pH value of water shall not be less than 6.

5.	STEEL : (Fe500 IS:1786-1985) a) 0.2 % proof stress	One for each source of supply and once in six months for fresh supply	500 kg / cm ² (Minimum) for Fe 500 steel
	b) Elongation	-do-	Percentage of elongation 14.5% minimum
SI No.	Description of Materials	Frequency of test	Allowable limits
	c) Tensile Strength	-do-	Ultimate tensile strength 4900 kg/ cm ² (Minimum)
6.	BRICKS (IS: 1077-1976) a) Compressive strength	One for each source of supply and once in two months when change in texture is noticed.	Shall not be less than 40 kg/cm ²
	b) Water Absorption	-do-	Shall not be greater than 20% by weight
7.	CONCRETE (IS: 456-2000) a) Cube strength	Frequency of test in as per clause 15.2 of IS:456-2000 per example 6 cubes specimens, 3 each for 7 days & 28 days strength for every 15 Cum cube shall be prepared, cured and tested in a accordance with the requirement of IS: 516	a) Compressive strength (7 days) M15 – 100 kg/cm ² (Minimum) M20 – 150 kg/cm ² (Minimum) b) Compressive strength (28 days) M15 – 150 kg/cm ² (Minimum) M20 – 200 kg/cm ² (Minimum)
	c) Slump	Thrice in a day of concrete in morning, noon and evening	a) Foundation footing- 10mm to 25mm b) Column beams and slabs – 25mm to 40mm (with normal reinforcement) c) Beams, slabs – 40mm to 50mm (with congested reinforcement)

STANDARD SPECIFICATION FOR BUILDING WORK (AS PER A.P.S.S.)

All the items of work shall be executed as per the Standard Specification laid down in APSS, the relevant I.S Codes of the Special Specification as indicated in Schedule – 'A' of the RFP

Sl No.	Name of the specification	Specification No. of. APSS
1.	STANDARD SPECIFICATION FOR MATERIALS	
1.01	Genral	101
1.02	Common Burnt Clay Brick	102
1.03	Broken Brick	103
1.04	Surki	104
1.05	Fly Ash	105
1.06	Rough Stones for dry packed revetments and aprons	106
1.07	Stone for Masonry	107
1.08	Broken Stone/Coarse Aggregate for concreet	108
1.09	Marble	109
1.10	Sand	110
1.11	Lime	111
1.12	Portland Cement of not less than '42' grade	112
1.13	Lime Mortar	113
1.14	Surki Mortar	114
1.15	Cement Mortar	115
1.16	Cement Lime Mortar	116
1.17	Sebara putty (Lime Putty)	117
1.18	Pan Tiles	118
1.19	Burn Clay Flat Terracing Tiles	119
1.20	Clay Roofing Tiles, Mangalore pattern	120
1.21	Giazed Tiles	121

SI No.	Name of the specification	Specification No. of. APSS
1.22	Bitumen Felts for Water Proofing and Damp Proofing	122
1.23	Cuddapah / Shahbad Slabs	123
1.24	Galvanized Steel Sheets (Plain and Corrugated)	124
1.25	Un-reinforced Corrugated Asbestos Cement sheets	125
1.26	Steel for Reinforcement	126
1.27	Steel for Structural Work	127
1.28	Asbestos Cement Flats Sheets	128
1.29	Water	129
1.30	Teak Wood	130
1.31	Bamboos	131
1.32	Ballies	132
1.33	Steel Sheets piling Sections	133
1.34	Bitumen Emulsion for Roads (Anionic Type)	134
1.35	Cut back Bitumen	135
1.36	Paving Bitumen	136
1.37	Coal Tar Pitch	137
1.38	Morrum	138
2.	STANDARD SPECIFICATIONS FOR CLEARING SITE, DISMANTLING BUILDING AND OTHER STRUCTURES AND BLASTING	
2.01	Clearing Site	201
2.02	Dismantling of Buildings and Other Structures	202
2.03	Blasting	203
3	STANDARD SPECIFICATIONS FOR EARTH WORK	
3.01	Excavation and Forming un compacted banks	301
3.02	Embankment compacted by other than driven equipment	302
3.03	Embankment compacted by power driven equipment	303
3.04	Clay blankets	304
3.05	Filters	305
SI No.	Name of the specification	Specification No. of. APSS
3.06	Rock-fill in toe of embankment	306
3.07	Turfing	307

3.08	Excavation of foundation	308
3.09	Filling in foundations	309
3.10	Filling in Basement	310
3.11	Well sinking for foundations	311
3.12	Well sinking for Water Supply	312
3.13	RCC Precast and Cast-in-situ pile foundations	313
4.	STANDARD SPECIFICATIONS FOR CONCRETE	
4.01	Lime Concrete and surki concrete	401
4.02	Cement Concrete for plain and reinforced works.	402
4.03	Reinforced cement concrete work	403
4.04	Repair grouting to aprons and revetments with surki Concrete and pointing with surki mortar	404
4.05	Pre stressed concrete work	405
5.	STANDARD SPECIFICATIONS FOR BRICK MASONRY	
5.01	Brick Masonry- General	501
5.02	Brick in Lime Mortar	502
5.03	Brick in Surki Mortar	503
5.04	Brick in Cement Mortar	504
5.05	Brick in Cement Lime Mortar	505
5.06	Brick in Clay	506
5.07	Brick Arch Work	507
5.08	Brick in Honey Comb work	508
5.09	Reinforced half-brick partition walls	509
5.10	Boiler Bricks works	510
5.11	Honey Comb works with white washed pan tiles	511
5.12	Brick Nogging	512
Sl No.	Name of the specification	Specification No. of. APSS
6.	STANDARD SPECIFICATION FOR STONE MASONRY	
6.01	Stone Masonry-General	601
6.02	Cut stone in Lime Mortar	602
6.03	Cut stone in Surki Mortar	603
6.04	Cut stone in Cement Mortar	604

6.05	Cut stone-Rock Rustic or quarry faced in mortar	605
6.06	Cut stone string course and other cornice etc., in mortar	606
6.07	Cut stone arch work	607
6.08	Rubble arching	608
6.09	Coursed Rubble in Lime Mortar(1 st sort)	609
6.10	Coursed Rubble in surki Mortar (1 st sort)	610
6.11	Coursed Rubble in Cement Mortar (1 st sort)	611
6.12	Coursed Rubble in Mortar (2 nd sort)	612
6.13	Uncoursed Rubble or random rubble in lime mortar	613
6.14	Random Rubble in surki mortar	614
6.15	Random Rubble in Cement Mortar	615
6.16	Random Rubble in Clay	616
6.17	Dry stone masonry (for retaining wall)	617
6.18	Damp proof (or any proof) course with Shahabad stone/ Cuddapah stone 50mm thick in cement mortar 1:3	618
6.19	Rough stone dry packing for aprons and revetment	619
6.20	Laterite or rough stone pitching for fiver conservancy works	620
6.21	Moorum back to rough stone dry packing and gravelling to top and side slopes of bounds 150 mm thick	621
7.	STANDARD SPECIFICATION FOR FLOORING GENERAL	
7.01	Flooring General	701
7.02	Flooring with Shahabad/Cuddapah slabs	702
7.03	Flooring with polished Shahabad/ Cuddapah slabs	703
7.04	Flooring with cement mortar (1:3), 12 mm thick	704
Sl No.	Name of the specification	Specification No. of. APSS
7.05	Flooring with coloured cement mortar (1:3), 12 mm thick	705
7.06	Terraced flooring with brick on edge, 75mm thick broken brick aggregate concrete and 12 mm thick cement plastering (1:3) on top	706
7.07	Flooring with Glazed Tiles	707
7.08	Flooring with in-situ Terrazzo finish	708
7.09	Flooring with Cement Tiles (A) plain or coloured (B) Terrazzo (C) Chequered or embossed	709
7.10	In-situ-Granolithic concrete flooring	710
8.	STANDARD SPECIFICATION FOR ROOFING AND CEILING	

8.01	Roofing with pan tiles set mortar over flat tiles with lime mortar borders including reepers	801
8.02	Roofing with pan tiles and lime mortar borders including reepers	802
8.03	Roofing with Mangalore tiles set in mortar over flats tiles and including reepers	803
8.04	Roofing with Mangalore tiles including reepers	804
8.05	Roofing with Mangalore tiles over ceiling tiles with air spaces and including reepers	805
8.06	Madras terraced roofing with brick edge 75 mm thick broken brick aggregate concrete three courses flat tiles and three coats of lime plaster to top and bottom	806
8.07	Madras terraced roofing with brick on edge, 75 thick broken brick aggregate concrete three courses of flats tiles and three coats of lime plaster to top and one coat of 12 mm thick cement plaster (1:3) to bottom.	807
8.08	Terraced roofing with brick on edge, 75 mm broken brick aggregate concrete two courses of flat tiles to top and one of 12 mm thick cement plaster (1:3) to bottom.	808
8.09	Weather proof course for reinforced cement concrete roofing with Lime broken brick aggregate concrete and two course of flat tiles	809
8.10	Water proof course for reinforced cement concrete roofing with two courses of flat tiles.	810
8.11	Complete surface repair to leaky lime plastered terrace roof	811
8.12	Water proofing of concrete and masonry (flat or sloping) roofs with Bitumen felts Normal treatment	812
8.13	Water proofing of concrete and masonry (flat or sloping) roofs with Bitumen felts Heavy treatment	813
8.14	Roofing with corrugated galvanized steel sheets	814
8.15	Roofing with corrugated asbestos cement sheets	815
8.16	Roofing with semi-corrugated asbestos cement sheets	816
8.17	False ceiling	817

SI No.	Name of the specification	Specification No. of. APSS
9.	STANDARD SPECIFICATION FOR PLASTERING, POINTING, WHITE WASHING, COLOUR WASHING, DISTEMPERING AND WATER PROOF CEMENT PAINTING ETC.	
9.01	Plastering General	901
9.02	Plastering with lime mortar one coat, 12 mm thick, including fine Rendering	902
9.03	Plastering with cement mortar, one coat 12 mm or 20 mm thick including fine rendering	903
9.04	Plastering with cement mortar 2 coat 20 mm thick with sponge finish	904

9.05	Plastering with combination mortar, one coat 12 mm thick including fine rendering	905
9.06	Pointing to masonry with cement mortar	906
9.07	Pointing to masonry with cement mortar	907
9.08	White-washing	908
9.09	Colour-washing	909
9.10	Dry distempering	910
9.11	Oil bound distempering	911
9.12	Water proof cement paint	912
10.	STANDARD SPECIFICATION FOR WOOD WORK	
10.1	Wood work-General	1001
10.2	Doors, windows, ventilators, ward robes and cup-boards etc.,	1002
10.3	Frame work for Roofs	1003
10.4	Wooden Partitions	1004
10.5	Wall Paneling	1005
10.6	Wooden Railing	1006
11	STANDARD SPECIFICATION FOR STRUCTURAL STEEL WORK	
11.01	Materials	1101
11.02	Steel work in single section of R.S. Joists, Flats, Tees Angles and Channels etc.,	1102
11.03	Steels work Riveted and bolted in built-up sections, trusses and framed work	1103
11.04	Steel work (welded) in build-up sections trusses and Framed works	1104
Sl No.	Name of the specification	Specification No. of. APSS
11.05	Miscellaneous Steel work Collapsible structures	1105
11.06	M.S. Steel sliding shutters	1106
11.07	M.S. Sheet Doors	1107
11.08	Rolling Shutters	1108
11.09	Clamps for ceiling Fan	1109
12.	STANDARD SPECIFICATION FOR PAINTING AND VARNISHING	
12.01	Painting-General	1201
12.02	Removing old paint with patent paint remover	1202
12.03	Removing old paint with caustic soda solution	1203

12.04	Removing old paint with blow lamp	1204
12.05	Painting with wood preservative	1205
12.06	Coal tarring	1206
12.07	Painting priming coat on wood, iron or plastering surfaces	1207
12.08	Painting with ready mixed paint	1208
12.09	Painting of Gl. sheets with ready mixed plant	1209
12.10	Spray painting with flat wall paint on new work including priming coat	1210
12.11	Spray painting with flat wall paint on old work	1211
12.12	Painting with synthetic enamel paint	1212
12.13	Painting with Aluminum paint	1213
12.14	Painting with acid proof paint	1214
12.15	Painting with anti-corrosive bitumanistic paint	1215
12.16	Wall painting with plastic emulsion paint	1216
12.17	Varnishing	1217
12.18	Oiling with raw linseed oil	1218
12.19	Wax polishing with readymade wax polish	1219
12.20	Painting cast iron rain water, soil waste and vent pipes and fittings including priming coal	1220
12.21	Lettering with paint	1221
12.22	French polishing	1222
SI No.	Name of the specification	Specification No. of. APSS
16.	STANDARD SPECIFICATION FOR MISCELLANEOUS	
16.01	Bamboo chucks with blue Dungary cloth pulleys, ring, ropes, hools, staples etc., complete including painting two coats	1601
16.02	Teak wood trellis work for verandahs	1602
16.03	Forming black boards on walls	1603
16.04	Barbed wire for fencing	1604
16.05	Reinforced concrete fencing	1605
16.06	Fencing with barbed wire or chain link mesh	1606
16.07	Protection of building and altered structures against lightning	1607
16.08	Steel doors, windows and ventilators	1608

16.09	Aluminum doors, windows and ventilators	1609
16.10	Fixing and glazing of metal (steel and aluminum) doors	1610

LIST OF SPECIFICATIONS FOR THE VARIOUS ITEMS OF WORKS
SUPPLEMENTING THOSE DESCRIBED IN SCHEDULE 'A' BY S.S.
NUMBERS

GENERAL SPECIFICATIONS

SI.No.	Short Title / description		IS.NO. and as amended from time to time
A) LIST OF INDIAN STANDARDS			
I	CEMENT		
	1	Specifications for 43 grade ordinary Portland cement	IS 8112:1989
	2	Methods of Physical tests for hydraulic comments	IS 4031 (part 1 to 15) : 1988
	3	53 Grade cement	IS 12269 : 1989
II	AGGREGATES		
	1	Specifications for coarse and fine aggregates from Natural resources for concrete	IS 383:1970
	2	Specification for sand for masonry	IS 2116:1980
	3	Methods of tests for aggregates for concrete part-1 particular size and shape	IS 2386:1963 (Part I to IV)
		Schedule – B Estimation of deleterious materials & organic impurities	
		Part –III soundness	
	4	Specification for test sieves Part-I wire cloth test sieves	IS 460:1978 (Part-I)
III	BRICKS		
	1	Specifications for common burnt clay building bricks	IS 1077 : 1992
	2	Methods of test for burnt clay building bricks	IS 3495 :1992(Part I to IV)
	3	Pulverized Fuel Ash-Lime Bricks - specifications	IS 12894:2002

Sl.no	Short title / Description	IS. No. and as
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SL.NO	Short Title / Description		IS. No. and as amended from time to time
	4	Specification for concrete masonry units part 3 Autoclaved cellular Aerated concrete blocks	IS 2185:1984 (Part-III)
IV	BUILDING STONES:		
	1	Method of tests for determination of strength properties of natural building stones (compressive strength, transverse strength, tensile strength, shear strength.)	IS 1121 (Part 1 to Part-4): 1974
	2	Schedule of Properties and availability of stones for construction purposes	IS 7779:1975 (part 1 to part 5)
	3	Quarrying stones for construction purposes, recommended practice	IS 8381:1977
	4	Stone Masonry : Specifications for dressing natural building stones	IS 1129:1972 (part – IV)
V	STEEL		
	1	Specifications of mild steel and medium tensile steel bars and hard drawn steel wires for concrete reinforcement. Part-I Mild Steel & Medium Tensile steel bars	IS 432:1982 (Part I & II)
	2	Specifications for cold-worked steel, high strength deformed steel bars and wires for concrete reinforcement.	IS 1786:1985
	3	Specifications for steel for General structural purposes	IS 2062:1999
	4	Specification for structural steel (Standard quality)	IS 226:1975
	5	Specifications for steel tubes for Structural purposes	IS 1161:1998
	6	hand drawn wire	IS 432:1953

			amended from time to time
VI	CERAMIC TILES		IS 13712:2006
VII	STACKING AND STOORAGE OF MATERIALS		
	1	Recommendation of stacking and storage of construction materials and components at site	IS 4082:1996
VIII	MASONARY		
	1	Brick masonry	IS 2212:1962
	2	Code of practice for construction of stone Masonry Part-1 (Rubble stone masonry)	IS 1597:1992
	3	Code of practice for permeability test for masonry (during and after construction)	IS 11216:1985
	4	Code of practice for brick work	IS 2212:1991
	5	Construction of hallow and solid concrete block masonry	IS 2572:2005
	6	Code of practice for construction of autovalved cellular concrete block masonry	IS 6041:1985
IX	CONCRETE		
	1	Code for Practice for plain and reinforced concrete	IS 456:2000
	2	Method of sampling and analysis of concrete	IS 1199 :1959
	3	Method of test for strength of concrete	IS 516:1959
	4	Recommended guide lines for concrete Mix Design	IS 10262:1982
	5	Code of practice for ready-Mixed concrete	IS 4926: 2003
	6	Specification for Admixtures for concrete	IS 9103:1999
	7	Guidelines for false work for concrete structures	IS 14687 : 1999

Sl.No	Short title / Description		IS. No. and as amended from time to time
	8	Code for Practice for use of immersion vibrators for consolidating concrete	IS 3558:1983
	9	Specifications for Pre-cast concrete coping blocks	IS 5751 : 1984
	10	Laying in situ cement concrete flooring	IS 2571 : 1970
	11	Code of Practice for concrete structures for the storage of liquids	IS 3370:1965 (Part 1&2) IS 3370 -1967 (Part 3&4)
	12	Code of practice for concrete roads	IRC : 15-2002
x	Reinforcement / Structural Steel work		
	1	Code of Practice for bending and fixing of bars for Concrete reinforcement	IS 2502 :1963
	2	Recommendations for detailing of reinforcement in reinforced cement concrete works	IS 5525:1969
	3	Mils steel wire for General Engineering purposes	IS 280:2006
	4	Recommendation for welding of cold worked bars for reinforced concrete construction	IS 9417:1989
	5	Code of practice for general construction in steel	IS 800:1984
	6	Code of practice for use of metal arc welding for general construction in mild steel	IS 816:1969
	7	Safety code for erection of structural steel work	IS 7205 : 1974
	8	Tolerance for fabrication of steel structures	IS 7215:1974
XI	JOINERY		
	1	Specifications for timber paneled and glazed door, window and ventilator shutters	IS 1003-part 1-2003 and IS 1003- part-2-1994
Sl.No	Short title/ description		IS. No. and as amrned from time to time

	2	Specification for cut size timber	IS 1331 : 1971
	3	Code for practice for glazing in buildings	IS 3548 :1988
	4	Specification for aluminum doors, windows and ventilators	IS 1948 : 1961
XII	EARTH WORK:		
	1	Code for safety for excavation works	IS 3764: 1966
	2	Safety code for piling and other deep foundations	IS 5121 : 1969
	3	Code of practice for earth work on canals	IS 4701 : 1982
	4	Methods of test for soils	IS 2720
XIII	OTHER SUBJECTS		
	1	Code of practice for design and insulation of joints in buildings	IS 1791 : 1968
	2	Code of Practice for design and construction of foundations in soils : general requirement	IS 1904 :1986
		Colors for Ready mixed paints & enamels	IS 5:2004
XIV	MACHINERY		
	1	Batch type concrete mixer	IS 1791 : 1968
	2	Concrete vibrators – immiscible type	IS 2505 :1980
	3	Specifications for moulds for use in tests of cement and concrete	IS 10086:1982
	4	Compression testing machine used for testing of concrete Mortar	IS 14858 : 2000
	5	Sheep foot roller	IS 4616 : 1968

Sl.No	Short Title / description	IS. NO. and as amended from time to time
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XV	SAFETY		
	1	Code of Practice for fire Safety of Buildings (general): Details of construction	IS 1642:1989
	2	Criteria for earth quake resistant design of structures	IS 1893 : 2002 Part-1
	3	Code of practice for earth quake resistant design and construction of buildings	IS 4326 : 1993
	4	Safety code for scaffolds and ladders	
		Part-I - Scaffolds	IS 3696:1987(Part-I)
		Part-I - ladders	IS 3696: 1991(part –II)
XVI	DRAWINGS:		
	1	Code of practice for general engineering drawings	IS 696:1972
	2	Code of Practice for Architectural and building drawing (First revision)	IS 962:1989
XVII	MEASUREMENT		
	1	Methods of measurement of building and civil engineering works	IS : 1200

Note:- The above I.S sections mean latest over and above with amendments if any.

CONSENT LETTER (On Firm's letter head)

From

To.

Sir

Sub: - Request for Proposal for Quality Assurance and Quality Control for Integrated Administrative Building at Lam, Guntur for of Regarding

I / We Quality Assurance and Quality Control firm/ organization herewith enclose Technical & Financial Proposal for selection of my / our firm as consultant for

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of corruption Act 1988".

Yours faithfully,

Signature

.....

Full name

Address

Authorized Representative

ASSIGNMENT ON BUILDING AND ROAD WORKS
(3RD PARTY QA & Q.C. SERVICES) SUCCESSFULLY COMPLETED
DURING LAST 3 YEARS IN GOVERNMENT DEPARTMENTS

S. NO	Description of assignment	Employer	Cost of Assignment	Period of Assignment	Date of Commencement	Date of Completion

Note: Please attach certificates from the employer by way of documentary proof (issued by the officer of rank not below Executive Engineer or equivalent)

Authorized Signature

ASSIGNMENT OF SIMILAR NATURE (3RD PARTY QA&Q.C. SERVICES) ON CIVIL WORKS SUCCESSFULLY COMPLETED DURING LAST 3 YEARS IN GOVERNMENT DEPARTMENTRS

S. NO	Description of assignment	Employment	Cost of Assignment	Period of Assignment	Date of commencement	Date of completion

Note: Please attach certificates from the Employer by way of documentary proof(issued by the officer of rank not below Executive Engineer or Equivalent).

Authorized Signature

COMPOSITION OF THE TEAM PERSONEEL AND THE TASK WHICH WOULD BE ASSIGNED TO EACH TEAM MEMBER

Technical / Managerial Staff

S.No	Name	Position	Task Management

Support Staff

S.No	Name	Position	Task Management

Authorized Signature

SUGGESTED FORMAT OF CURRICULUM VITAE FOR MEMBERS OF
CONSULTANT’S TEAM

1. Name :
2. Date of Birth :
3. Profession / Present Designation
4. Years with firm / Organization : Year
5. Area of Specialization :
6. Proposed Position of Team :
7. Key qualification :

(Under this heading, give outline of staff member’s experience and training most pertinent to assigned work on proposed work on proposed team Describe degree of responsibility held by staff member on relevant previous assignment and give dates and locations. Use up to half a page)

8. Education :

(Under this heading, Summarize College / university and other specialized education of staff member, giving names of school / colleges etc., date attended and degrees obtained. Use up to a quarter pages)

9. Experience :

(Under this heading, list all positions held by the staff members since graduation, giving dates, names of employing organization, title of positions held and location of assignments. For Experience in last five years for B.E civil & Eight years for D.C.E. also give types of activities performed and ESTAE OFFICER references, where appropriate. Use up to three quarters of a page)

10. Language :

(Indicate proficiency in speaking. Reading and writing of each language by "good" or "poor")

Date:

Authorized Signature

DRAFT FORM OF AGREEMENT
(Not to be filled at the time of bidding)

Subject: - RFP for 3rd party Quality Assurance and Quality Control of civil work of integrated Administrative Building at ANGRAU, Lam, Guntur.

Draft Agreement for Assignment to be carried out by Consultant

Name of Consultant: _____

Name of the client Estate officer ANGRAU, Lam, Guntur.

1. Set out below are the terms and conditions under which (Name of consultant) has agreed to carry out for (ESTATE OFFICER) the above mentioned assignment specified in the attached Terms of Reference and decision taken during the pre bid meeting held on _____ and as per the recommendation of the committee, common rate is approved by the Estate officer, ANGRAU.
2. For Administrative purposes the Estate officer, ANGRAU, Lam, Guntur has been assigned to administer the assignment and to provide (NAME OF CONSULTANT _____)
With all relevant information needed to carry out the assignment. The services will be required for 15 months from the draft of Agreement.
3. The Estate Officer, ANGRAU, Lam, Guntur, may find it necessary to postpone or cancel the assignment and/ or shorten or extend its duration. In such case, every effort will be made to inform the firm, as early as possible, notice of any charges. In the event of termination, the (NAME OF THE CONSULTANTS) shall be paid for the services rendered for carrying out the assignment to the date of termination, and the (NAME OF CONSULTANTS) will provide the Estate Officer, ANGRAU, Lam, Guntur with any report or parts thereof, or any information and documentation gathered under this agreement prior to the date of termination.
4. The services to be performed, the estimated time to be spent, and the reports to be submitted will be in accordance with the attached TOR.
5. This Agreement, its meaning and interpretation and the relation between the parties shall be governed by the laws of the State of Andhra Pradesh.
6. This agreement will become effective upon confirmation of this letter on behalf of (NAME OF CONSULTANTS) and will terminate on or such other date as mutually agreed between the (ESTATE OFFICER, ANGRAU) and (NAME OF CONSULTANTS _____).
7. Payments for the services will not exceed agreed % of total value of work done plus Prevailing GST.
The above cost Rs. _____ + GST includes all the cost related to carrying out the services and overhead imposed on (Name of consultants _____) However if there is upward revision in GST. The difference between prevailing rate & revised rate shall be paid to the consultant. If there is any downward revision in service tax, the difference between prevailing rate & revised rate shall be recovered from the consultant.

Quantum of work can be increased or decreased by Estate Officer, ANGRAU, Lam, Guntur and payment will be adjusted proportionately.

8. The (NAME OF CONSULTANTS) will be responsible for appropriate staff insurance coverage. In this Regard, (NAME OF THE CONSULTANTS) shall maintain workers compensation, employment liability insurance for their staff on the assignment. The consultants shall also maintain comprehensive general liability insurance, including contractual liability coverage adequate to cover the indemnity of obligation against all damages, costs, and charges and expenses for injury to any person damage to any property arising out of, or in connection with, services which result of from the fault of (NAME OF CONSULTANTS) or its staff. The (NAME OF CONSULTANTS_____) shall provide the ESTATE OFFICER, ANGRAU with certification thereof upon request.
9. The (NAME OF CONSULTANTS) shall identify and hold harmless to the Estate Officer, ANGRAU, Lam, Guntur against any and all claims, demands, and/or adjustments of any nature brought against ANGRAU arising out of services by the (NAME OF CONSULTANTS_____) under this Agreement. The obligation under this paragraph shall survive the termination of this agreement.
10. The consultant agrees that, during the term of this contractor and after its termination, the consultant and any entity affiliated with the consultant, shall be disqualified from proving goods, works observes (other than the services and any continuation thereof) for any project resulting from or closely related to the services.
11. All reports and other documents or software submitted by (NAME of CONSULTANTS) in the performance of the services shall become and remain property of the ANGRAU. The consultants may retain copy of such documents but shall not use them for purposes unrelated to this contract without the prior written approval of the ESTAE OFFICER.
12. The consultant undertake to carry out the assignment in accordance with the highest standard of professional and ethical competence and integrity, having due regard to the nature and purpose of the assignment, and to ensure that the staff assigned to perform the services under this agreement, will conduct themselves in a manner consistent herewith.
13. The consultant will not assign this contract or sub-contract or any portion of it without the ESTATE OFFICER's prior written consent.
14. The (Name of Consultant) shall pay the taxes, duties fee, levies and other impositions levied under the applicable law and the ESTATE OFFICER shall perform such duties in this regard to the deduction of such tax as may be lawfully imposed.
15. The (NAME OF CONSULTANTS) agree that all knowledge and information not within public domain which may be acquired while carrying out this agreement, shall be, for all time and for all purpose

(Except when it is required to be disclosed by law), regarded as strictly confidential and held in confidence, and shall not be directly disclosed to any person whatsoever, except with the written permission of the special officer, ANGRAU or any other officer authorized by the Estate Officer, ANGRAU.

16. Any dispute arising out of the contract which cannot be amicably settled between the parties shall be referred to adjudication/ arbitration in accordance with arbitration & Conciliation Act 2015 with Amendment Act 3 of 2016.

17. In case of abandonment of the work by (NAME OF CONSULTANTS) or upon the termination. The Estate Officer, ANGRAU will have a right to forfeit the security deposit deposited by the firm.

18. All the terms and condition will be strictly followed as per detailed RFP document.

19. The quantity of work can be increased or reduced by the ESTAE OFFICER, and the payment will be done on the prorated basis (as per financial offer)

Place: GUNTUR

Date:

(Signature of Authorized Representative on behalf of consultant)

(Signature & Name of the
ESTATE OFFICER's Representative)

PART - II

LETTER OF TRANSMITTAL

FROM:

To:
M/s ANGRAU
Lam,
Guntur, AP-
522034.

Sir,

SUB: Submission of Quality Assurance and Quality Control eligibility documents for Appointment of Quality Assurance and Quality Control agency for Integrated Administrative Building at Acharya N.G Ranga University Lam, Guntur (AP).

Having examined the details given in the QA&QC RFP Notice for the above project, I/We here by submit the relevant information.

1. I/We here by certify that all the statements made and information supplied in the enclosed forms and accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for the technical eligibility and have no further pertinent information to supply.
3. I/We also authorize ANGRAU or their authorized representatives to approach individuals, employers and firms to verify our competence and general reputation.
4. I/We submit the following certificates along with details in prescribed format in support of our suitability, technical know-how and capability for having successfully completed the following projects:

S.No	Name of project	Certificate from
1		
2		
3		
4		
5		

Enclosures

Signature(s) of Applicant(s)
Seal of applicant
Date of submission

Document to be submitted in support of the Evaluation
Criterion and information in required formats.

1. WORK EXPERIENCE

- (i) Experience certificates for the similar works done.
- (ii) Description of the project with complete details in one or two pages
- (iii) Certificates from clients
- (iv) Photographs
- (v) Organizational structure. (Form – A)
- (vi) Details of Qualifying parameters. (Form – B).
- (vii) QA&QC questionnaire proforma. (Annexure – II)
- (viii)

2. DETAILED ARCHITECTURAL & DESIGN EXPERIENCE

- (i) Site plans of various buildings. If multistoried, each floor plans in A3 size.
- (ii) Write up in one or two pages (Area, cost, date of start, date of completion etc.)
- (iii) Certificates from client
- (iv) Photographs

3. FINANCIAL CAPABILITY

- (i) Certified copies of IT returns
- (ii) Annual reports duly certified by Chartered Accountant
- (iii) Form – D.

4. DETAILS OF SIMILAR WORKS COMPLETED IN THE PREVIOUS YEARS

List of similar prjecs successfully completed during the last 5 years. (Form-C (I&II))

- (i) Certificates from clients

5. Details & location of local offices

6. LETTER OF TRANSMITAL .

QA & QC Questionnaire Proforma

1.	Name of Applicant: -
2.	State the Structure of the Applicant's organization: -(Applicants to indicate as appropriate) Public Sector Organization/ Educational Institute Individual Company Firm
3.	Individual applicant or lead member(in case of consortium) to provide this information: 1. Name of the company/firm: 2. Individual applicant company/lead member of consortium: 3. Legal status of company: 4. Registration No. with the Country of Registration: 5. Year of Registration: 6. Registered address: 7. Principal place of business: 8. Address of Branch Offices(own): 9. Whether wholly/partially owned subsidiary of foreign company: Yes/No(give details) 10. Name and address of Principal/Parent Company(if applicable): 11. Name of contact person: 12. Contact person's designation: 13. Address, telephone, fax no., email address of contact person: 14. Name of contact person(at Guntur Office if any): 15. Contact person's designation(at Guntur Office if any): 16. Address, telephone, fax no., email of contact person(at Guntur Office if any):
4.	For applicants who are in consortium, state the following information for each member of consortium(include additional sheet if required): 1. Name of Company/Firm: 2. Legal status of company: 3. Registration No. with the Country of Registration: 4. Year of Registration:

	<p>5. Registered Address: 6. Principal Place of Business: 7. Address of Branch Offices(own): 8. Whether wholly owned subsidiary or foreign company: Yes/No 9. Name and address of Principal/Parent Company(if applicable): 10. Name of contact person: 11. Contact person's designation: 12. Address, telephone, fax no., email address of contact person: 13. Name of contact person(at Guntur Office if any): 14. Contact person's designation(at Guntur Office if any): 15. Address, telephone, fax no., email of contact person(at Guntur Office if any)</p>								
5.	<p>Does QA&OC RFP application contain the board resolution/Power of Attorney/Authority Letter, Which empowers the person or persons to sign the Letter of Application?</p> <p>Yes/No</p> <p>If no. give reasons</p>								
6.	<p>State the number of years the applicant (or each constituent member of consortium) has been in business under the business name appearing in the answer to question 3 and 4 above.</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">No. of years</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td></td> </tr> <tr> <td>2.</td> <td></td> </tr> <tr> <td>3.</td> <td></td> </tr> </tbody> </table>	Name	No. of years	1.		2.		3.	
Name	No. of years								
1.									
2.									
3.									
7.	<p>State the number of years the applicant (or each constituent member of consortium) has been in business undertaking work similar in scope and nature of work for which short listing is sought</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">No. of years</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td></td> </tr> <tr> <td>2.</td> <td></td> </tr> <tr> <td>3.</td> <td></td> </tr> </tbody> </table>	Name	No. of years	1.		2.		3.	
Name	No. of years								
1.									
2.									
3.									
8.	<p>Individual applicant/each member of consortium should compile a list showing their previous experience of work as per proforma at Form C-(I) and Form C-(II) in the manner and for the period indicated in the proforma (attach separate sheets duly referred as in response to question 8)</p> <p>Do you authorize ANGRAU to make enquiries with any of the clients listed by the applicant?</p>								

	<p>Yes/No</p> <p>Have you (each constituent member in case of consortium) provided information regarding previous experience of work as per Form C-(I) and Form C-(II)?</p> <p>Yes/No</p>
9.	<p>Whether Individual applicant or members of consortium have in-house facility of all services and related staff?</p> <p>Yes/No</p> <p>If no, whether necessary legal agreements with various services consultancy organizations for a period of minimum 3 years from date of application are attached with this EOI application?</p> <p>Yes/No</p>

Note:

Please provide sufficient information and valid proof for each parameter.

ANNEXURE-11

FORMAT FOR POWER OF ATTORNEY FOR AUTHORISED SIGNATORY OF
CONSORTIUM MEMBERS

POWER OF ATTORNEY*

(To be executed on non judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the power of Attorney)

Know all men by these presents, we.....(name of member firm of the consortium with address of the registered office).....do here by constitute, appoint and authorize Mr./Ms.....(name and residential address.....who is presently employed with us and holding the position of.....As our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our proposal for the Appointment of Quality Assurance and Quality Control agency for the Proposed Integrated Administrative Building at Acharya N.G Ranga University Lam, Guntur (AP) including signing and submission of all documents and providing information/response to Client, representing us in all matters, dealing with Client in all matters in connection with our bid for the said project.

We here by agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our afore said shall and shall always be deemed to have been done by us.

Dated this the.....day.....20...

(Signature of authorized Signatory)

.....

(Signature and Name in Block letters of Signatory) Seal of Company

Witness

Witness1:

Witness2:

Name:

Name:

Address:

Address:

Occupation:

Occupation:

*Notes:→To be executed by all the members individually, in case of a Consortium.→The mode of execution of the power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter document(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

FORMAT FOR POWER OF ATTORNEY TO LEAD MEMBER OF
CONSORTIUM

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the power of Attorney)

POWER OF ATTORNEY*

Whereas Client has invited proposals from Applicants for submission of proposals for.....(Name of work).....,Whereas, the members of the joint Venture/Consortium comprising of M/s.....,M/s.....,M/s.....,M/s..... (the respective names and addresses of the registered office to be given)are interested in submission of proposals for the Appointment of Quality Assurance and Quality Control agency for the Proposed Integrated Administrative Building at Acharya N.G Ranga University Lam, Guntur (AP) in accordance with the terms and conditions contained in the QA&QC RFP documents.

Where as it is necessary for the members of the consortium to design at e one of the mast he Lead member, with all necessary power and authority to do, for and on behalf of the consortium, all acts, deeds and things as may be necessary in connection with the consortium's bid for the project, as may be necessary in connection the consortium's bid for the project.

NOW THIS POWER OF ATTORNEY WITNESSETH THAT:

We, M/s....., here by designate M/s.....,being one of the member of the consortium, as the lead member of the consortium, to do on behalf of the consortium, all or any of the acts, deed sorting necessary or incidental to the consortium's bid for the project, including submission of application/proposals, participating in conference, responding to queries, submission of information/documents and generally to represent the consortium in all its dealing with the Client or any other Government Agency or any person, in connection with the Consultancy assignment until culmination of the process of bidding till the contract agreement is entered into with the Client and there after till the expiry of the contract agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by Lead member ,our said attorney, pursuant to this power of attorney and that all acts deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us/consortium.

Dated this the..... Day of.....200.....

(Signature)

.....

(Name in Block letters of
Executants) Seal of Company

Witness1:

Name:

Address:

Occupation:

Witness2:

Name:

Address:

Occupation:

*Notes:

→To be executed by all the members individually, in case of a Consortium.

→The mode of execution of the power of Attorney should be in accordance with the procedure , if any, laid down by the applicable law and the charter document(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

ANNEXURE IV

TO BE SWORN ON A NON-JUDICIAL STAMP
PAPER OF RS. 100/-

AFFIDAVIT

*I/we.....

*Director/Proprietor/Partner of.....

.....(mention name of organization and its complete address)do here by
solemnly affirm and declare as under:

8.2.1. That*I/we..... *am/are registered as(mention
name of
*firm/company/Consortium)vide Registration No.....under
the provisions of
.....(mention the name of the Act).

That*I/we.....have applied in response to the
Invitation for
RFP for Quality Assurance and Quality Control agency for the Proposed
Integrated
Administrative Building at Acharya N.G Ranga University Lam, Guntur
(AP).

8.2.2. That.....(mention name of organization) is
eligible to submit the aforesaid proposal as neither the applicant has
been barred and/or blacklisted by the Central Government and/or any
State Government of India at any time prior to the date of submitting this
affidavit.

8.2.3. That.....(mention name of organization) or
any of its constituents during the last three years has neither failed to
perform on any agreement nor was expelled from any project or
agreement nor any agreement terminated for any breach by the
applicants or any of its constituents.

8.2.4. That an annexure attached to this affidavit gives list of all contracts
of.....
.....(mention organization) or any of its constituents with the
state/central government that are in arbitration.

DEPONENT

VERIFICATION

*I/we.....the above named deponent do here by verify that the contents of the above said paragraphs 1 to 4 are true and correct to the best of *my/our knowledge and belief and nothing is concealed there from.

Verified at.....(place) this.....Day of.....2017.

(Strike off whichever is not applicable)

DEPONENT

Note: Deponent will be the authorized signatory of the Applicant

ORGANISATIONAL STRUCTURE

1)	Name & Address of the applicant with Telephone No./Fax No/Email, Website etc.	
2)	a) Year of Establishment b) Date & Year of commencement of practice.	
3)	Legal status of the applicant (attach copies of original document defining the legal status)	
	a) A proprietary firm	
	b) A firm in partnership	
	c) A limited company or Corporation/Joint venture/Consortium	
4)	Names of Directors & other executives with designation	
5)	Designation of individuals authorized to act for the organization.	
6)	Total No. of professional staff & years of experience: - <ul style="list-style-type: none"> • Ph.D in construction materials • Ph.D in structures • QC Engineer in Manager cadre • QC Engineer in Asst. Manager cadre • Supporting staff any other • Other Professional/Scientific 	
7)	Was the applicant ever required to suspend the project for a period of more than six months continuously after commencement of the work? If so, give the name of the project and reasons of suspension of project.	

8)	Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded project before its completion? If so, give name of the project and reasons for	
9)	Has the applicant or any constituent partner in case of partnership firm, ever been debarred/blacklisted for competing in any organization at any time? If so, give details.	
10)	Has the applicant or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.	
11)	Any other information considered necessary but not included above.	

Signature

DETAILS OF QUALIFYING PARAMETERS

Sr. No.	Particulars requirement	(Ref. Page No. in Proposal)	Details of Particulars provided
1.	RFP document processing fee Rs.10,000/- and security deposite Rs. 1,00,000/- in the form of cash or DD from Nationalized/Scheduled bank		
2.	Proposal validity 90 days from last date of Submission of Proposals		
3.	Qualifying Projects [As per Form-C(I)and C(II)]		
4.	Power of Attorney for authorized signature of Consortium members		
5.	Power of Attorney to Lead member of Consortium		
6.	Joint Venture Agreement.		
7.	Declaration of consortium at Annexure II & Annexure III		
8.	Firm should be in existence at least for the last three years. (Self attested Registration certificate copy to be enclosed.)		
9.	At least QA&QC services should be done successfully for one building with 9 floors and above and should be completed within last three years.		
10.	Financial turnover of single firm.		
11.	Only firm having +ve net worth and profit making in all the last three financial years.		
12.	One present ongoing project in Government sector.		
13.	Having local office at Vijayawada / Guntur		
14.	Own laboratory at Guntur/Vijayawada/Hyderabad accredited with NABL		

15.	M.Tech 10 years exp- 1no B.Tech 5 years exp – 2 nos		
16.	Has the applicant or any other constituent partner in case of partnership firm, ever abandoned the awarded project before its completion? If so, give name of the project and reasons for abandonment.		
17.	Has the applicant or any other constituent partner in case of partnership firm, ever been debarred / blacklisted in any organization, at any time? If so, give details.		
18.	Has the applicant or any other constituent partner in case of partnership firm, ever been convicted by a court of law?If so, give details.		
19.	Any other information necessary to be considered apart from the included information in this document?		

Applicant's Experience

(Details of major works (maximum ten) executed during the last ten years that may support evaluation criterion at Annexure V)

Sl. No.	Name of work	Address & contact detail of the client	Role in participation: Individual/ Member of consortium	Description actual services provided by technical	Date of commencement & completion		Project Cost INR In Million	Proposed cost	Site Area	Build Up area	Time for completion as per

Name of Company/Firm:

Please give reasons if the actual cost was more than 10% above the proposed cost.

Please give reasons if the actual time for completion was greater than 10% above the original schedule.

Note:

- The information is to be given by individual applicant or each member of the consortium including lead member separately.
- The list of works is to be compiled as per the format above giving reference to specific evaluation criterion for which work being listed.
- Copy of supporting documents (in the form of certificate from client/agreements/appointment orders/contract/certification provided by Project owners) should be closed.
- Where currency conversion is used, specify the exchange rate and its date.

16	Total covered area (insq.mts.): (gives separate information about actual built up/under construction and proposed)
17.	Brief description of the general specification of the special features:

Note;

- . The information is to be given by individual applicant or each member the consortium including lead member separately.
- . Copy of supporting document (in the form of certificate received) should be closed.
- . Where currency conversion issued, specify the exchange rate and its date.

FINANCIAL CAPABILITIES

(Rs. In lacs)

Financial Year	Financial turnover of Single Firm / JV (Lead
2015-2016	
2016-2017	
2017-2018	
Average Annual Turnover over the past three years	

Audited balance sheet/IT return to be submitted in support of above turnover

Signature

ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR – 522034



ANGRAU

REQUEST FOR PROPOSAL FOR 3RD PARTY QUALITY ASSURANCE AND QUALITY CONTROL SERVICES AGENCY FOR INTEGRATED ADMINISTRATIVE BUILDING IN ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY, LAM, GUNTUR.

VOLUME-II

(TO BE SUBMITTED IN SEALED COVER 'B')

NAME OF WORK: RFP for 3rd party Quality Assurance and Quality Control Services Agency for Integrated Administrative Building in Acharya N.G. Ranga Agricultural University, Lam, Guntur.

Name of the Agency to whom issued :

ANGRAU

PRICEBID

Name of Work: Request for proposal for 3rd party Quality Assurance and Quality control services agency for integrated administrative Building in Acharya N.G. Ranga Agricultural University, Lam, Guntur.

Sl.No	Description of Work	Unit	Amount Rs. In Crore	Quoted(%) in figures	Quoted (%) in words
1	Carrying out 3rd party Quality Assurance & Quality Control to Integrated Administrative Building at Lam, Guntur including collection of samples testing of samples, testing of materials, verification of levels, including testing of all materials as per-construction, during construction and post construction stages. Advising ANGRAU / APIIC for improving the quality and durability of the works. Supporting ANGRAU/APIIC in technical direction. Consultant should guide the contractor for proper implementation of the work and improving the quality standards. The rate is inclusive of taxes, incidental charges, ground transportation, lab equipment, salaries for professional, documentation charges, communication charges and all sundries for a period of 15 months on par with the civil construction completion. (Excluding GST).	1 Job	Up to 110.00 crores		

Signature of the Bidder with seal

-END-

ACHARYA N G RANGA AGRICULTURAL UNIVERSITY

Administrative Office, Lam, GUNTUR-522509

RFP No.001/ANRAU/EO/TA/2018

Dt: 14-08-2018

NOTICE INVITING REQUEST FOR PROPOSAL (RFP)

Request for proposal is invited from the reputed 3rd Party QA&QC Services Agency for Civil Engineering Works of Integrated Administrative Building in ANGRAU, Lam, Guntur, A.P. Interested firms may submit their request for proposal as per the RFP document available in the University website: www.angrau.ac.in and submit along with Technical & financial bid to **The Estate Officer, ANGRAU, Lam, Guntur-522034** latest by 3.00 p.m. 12-09-2018, in a sealed cover super scribing "Request for proposal" along with the prescribed processing fees as per the RFP document.

Ph.Nos: 9440010903

P.V. Narasimha Rao
Estate Officer