

# **REQUEST FOR PROPOSAL**

FOR  
APPOINTMENT OF 3<sup>rd</sup> PARTY QUALITY  
CONTROL ASSURANCE AGENCY FOR  
ENGINEERING WORKS IN APIIC

**Andhra Pradesh Industrial Infrastructure Corporation Ltd.,  
(Govt of Andhra Pradesh undertaking)  
Corporate Office: D.No.59/A-20-3/2A,1<sup>st</sup> floor, Sri Siva Complex,Fun time  
Club Road,Teachers Colony,Vijayawada-520008.A.P,India  
Regd Office: “Parisram Bhavan “4<sup>h</sup> floor, 5-9-58/B, Fateh Maidan Road,  
Basheerbagh, Hyderabad-500 004, Telengana,India.**

**VOLUME-I**  
**(TO BE SUBMITTED IN SEALED COVER 'A')**

**NAME OF WORK:** Appointment of 3<sup>rd</sup> Party Quality Assurance Agreement Agency for Engineering works in Andhra Pradesh Industrial Infrastructure Corporation (APIIC).

Name of the Agency to whom issued:

1. Processing fee paid Rs.5,000/- vide DD/BC bearing No. \_\_\_\_\_ Date \_\_\_\_\_ of \_\_\_\_\_ Bank which is non-refundable.
2. Bid security deposit for Rs.2,00,000/- drawn in favour of APIIC Limited bearing No. \_\_\_\_\_ Dated \_\_\_\_\_ of \_\_\_\_\_ Branch \_\_\_\_\_.

## **CHAPTER-1**

### **ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION**

#### **OPEN BID TENDER NOTIFICATION FOR APPOINTMENT OF 3<sup>RD</sup> PARTY QUALITY ASSURANCE AGENCY FOR ENGINEERING WORKS IN APIIC**

TENDER NOTICE NO: 02/CE-I/APIIC/2017-18 ,DT. 15.05.2017

#### **INVITATION FOR OPEN BID**

Name of the work: Appointment of 3<sup>rd</sup> Party Quality Assurance Agency for  
Engineering works in APIIC.

#### **1. INTRODUCTION**

- 1.1 APIIC had developed proper mechanism for payment of their bills
- 1.2 A brief description of the assignment and its conditions are given in the scope of service of this schedule.
- 1.3 The APIIC will not provide the inputs such as labour, Machinery, Chemicals and power etc, specified in the scope of work.
- 1.4 In this connection APIIC is inviting the open bid tenders from the Registered Private Firms/Institutions, Government Firms, non-governmental organizations. The interested bidders who are having past experience in these similar nature of services and financial capability to undertake the job can obtain the open bid tender schedule documents from the office of Chief Engineer-I, APIIC, 5<sup>th</sup> Floor, Flat No502, Vijaya Residency, Sri Vasavi Nagar, Near Fun Time Club, Vijayawada or can be downloaded from website [www.apiic.in](http://www.apiic.in).

Further, schedule has mentioned below.

|                           |   |
|---------------------------|---|
| Issue of tender schedules | From 15.05.2017 to 05.06.2017               |
| Receipt of Bids           | <b>On or before 05.06.2017 at 15.00 hrs</b> |
| Opening of Bids           | <b>05.06.2017 at 15.30 hrs</b>              |

- 1.5 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.
- 1.6 The Managing Director, APIIC has right to reject, cancel, postpone, advance, any or all bids without assigning any reasons thereof.
- 1.7 The selected bidder is expected to commence the assignment on the date and at the location specified in the work order.

## **INFORMATION TO THE CONSULTANTS**

Offers are invited from consultants for rendering 3 rd Quality Control Assurance for engineering works in APIIC.

1. The bid shall be submitted in two covers Viz Cover 'A'-Technical bid and cover 'B'-Financial bid.
2. Technical bid in Cover 'A' shall comprise of technical evaluation information and lab equipment details and views of the consultant.
3. The following technical evaluation information shall be furnished in cover 'A'.
  - a. Company overview-A brief corporate profile is to presented along with details of experience with his clients, lists of similar projects completed and in progress and work experience in similar works.
  - b. Audited Financial Statements for last 5 years with PAN, TIN & PF Numbers.
  - c. Approach and methodology detailed description of each service/work being offer by the consultant as part of their scope.
  - d. Photographs of similar work handled by Agency.
  - e. Project teams staffing-Indicate the resources that are planned for this project and a scheme for project resourcing. Identification of the key project participants.
  - f. QMS & Software's-The consultant should present their quality management system and access to new technologies that would bring about value addition to this project in the disciplines of Quality control Assurance.
  - g. A Demand Draft in favour of APIIC Limited payable at Vijayawada for Rs. 5,000/- towards process fee which is non-refundable.
  - h. A Demand Draft in favour of APIIC Limited payable at Vijayawada for Rs. 2,00,000/- towards Bid Security.
  - i. List of equipment.
  - j. Experience certificates for the last 3 years in similar nature of Quality Assurance issued by the Government or semi-Government.

4. The RFP shall be submitted within the stipulated date and time. No extension of submission date will be considered.
5. The technical information furnished in cover 'A' shall be evaluated and proposals in cover 'B' for all qualified and eligible tenders will be opened.
6. APIIC reserve the to reject any or all of the bids without assigning any reason whatsoever.
7. If it found at any stage, that the bidder has furnished false information, then the bid is liable for cancellation at any stage.
8. The bidder shall bear all the costs associated with the preparation of the bid.
9. The bids submitted shall be valid for a period of six months. Non-adherence to this requirement any be a ground for determining the bid to be non responsive.
- 10. Bidders having a local office at Vijayawada/Guntur will be given preference/weightage.**

## **ELIGIBILITY CONDITIONS**

1. The selection of the bidder based on previous experience indicative equipment list (as mentioned below) with lab facilities and experience of Technical persons and offered rate.
2. The bidder shall submit list of lab equipments.
3. The bidder shall submit list of technical persons proposed to be employed on the work with their qualifications and experience.
4. The bidder firms for Quality Assurance should have 3 years previous experience in similar assignment. The experience certificate issued by the competent authority either from State Government or from Government of India should be produced along with bid for verification.
5. The tenderer must produce PAN, TIN Nos & PF Account Numbers.
6. Service Tax Registration.

# **GENERAL CONDITIONS OF CONTRACT CONTENTS**

## **CONTENTS**

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#### **1. GENERAL PROVISIONS**

##### **1.1 Definitions**

Unless the context otherwise requires, the following terms whenever used in this contract have the following meanings.

- a) “Applicable Law” means the laws of India and the state of Andhra Pradesh.
- b) “Contract” means the Contract signed by the Parties, to which these General Conditions of Contract (GC) are attached together with all the documents listed in Clause 1 of such signed Contract.
- c) “GC” means these General Conditions of Contract;
- d) “Government” means the Government of India or Government of Andhra Pradesh as appropriate to the context;
- e) “Local Currency” means Indian Rupees;
- f) “Party” means the client or the Consultants, as the case may be, and Parties means both of them;
- g) “Personnel” means persons hired by the Consultants or by any Sub consultant as employees and assigned to the performance of the Services or any part hereof;

- h) “SC” means the Special Conditions of Contract by which these General Conditions of Contract may be amended or supplemented;
- i) “Services” means the work to be performed by the Consultants pursuant to this Contract as described in the clause 3.0 of SC;

## **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 Client or the Consultants shall be taken executed by the authorized representative of consultant.

## QUALITY ASSURANCE AGREEMENT

This quality Assurance Contract Agreement (Herein called the "Contract") is made on this day between

(hereafter called the Consultant) which expression shall unless executed by or repugnant to the subject of context include their successors, representatives, heirs, executors to the administrator of the ONE PART.

### AND

The Chief Engineer-I, APIIC Ltd., having its Corporate Office at office at "D.No.59/A-20-3/2A,1st floor, Sri Siva Complex,Fun time Club Road,Teachers Colony,Vijayawada-520008, Andhra Pradesh(herein after Called the "Client") which expression shall unless executed by or repugnant to the subject or context include their successors in office and administrators assigns of the OTHER PART.

Whereas the consultant has vast experience in the field of quality assurance and adequate number of labs and trained staff.

And whereas the client is interested to have quality assurance of the infrastructure works undertaken by it is various Industrial Parks etc.

And whereas the consultant has offered to inspect units & check the quality of the work and to the same submitted a tender.

And whereas being on the assurance given by the consultant and since it is the successful bidder decided to entrust the works of quality assurance to the consultant on the terms & conditions mentioned below and this agreement as under.

### **1.1 Notices**

Any notice requested or consent made pursuant to this contract 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.

### **2.0 Commencement, completion, modification and termination of contract.**

#### **2.1 Commencement of services**

The consultant shall begin carrying out the service immediately from the date of execution of this contract/ or (if required other criteria be specified)

## **2.2 MODIFICATIONS**

Modification of the terms and Conditions of this contract, including any modification of the scope of the service or of the contract price, may only be made by written agreement between the client and consultant.

## **2.3 Force Majeure**

2.3.1 The terms and conditions mutually agreed upon this CONTRACT shall be subject to force majeure.

2.3.2 Neither APIIC nor the consultant shall be 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 lay or order proclamation, regulation or ordinance by any Government or of any sub division there of 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 effected.

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 implication of this CONTRACT.

2.3.4 In the event of Force Majeure both parties shall put in their best efforts towards resumption of the work at the earliest and shall put in their best efforts towards mitigating the costs incurred by the other works.

## **2.0 TERMINATION**

2.4.1. BY the client

The client may terminate this contract, by not less than thirty (30) days written notice of termination to the consultants, to be given after occurrence of any of the events specified in paragraphs (a) through

- a. If the consultant do not remedy a failure in the performance of their obligations under the contract, within thirty (30) days of receipt after being notified or within such further period as the client may have subsequently approved in writing.
- b. If the consultants become insolvent or bankrupt.
- c. If, as the result of Force majeure, the consultants are unable to perform a material of the service for a period of not less than sixty (60) days.

Or

- d. If the consultants, in the Judgment of the client has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- e. If the consultant fails to take up the quality assurance works with the agreement and breach any of the terms & conditions this contract.

For the purpose of this clause.

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

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

#### **2.4.2 By the Consultants**

The consultant may terminate this contract, by not less than thirty (30) days written notice to the client, 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 service for a period of not less than thirty (30) days.

### **3.0 OBLIGATION OF THE CONSULTANTS:**

#### **3.1 General**

The consultant shall perform the Third Party Quality Assurance Service for the works of APIIC. The consultants shall perform the service and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional technique and practices, and shall observe sound management practices, and employ appropriate method. The consultants shall always act, in respect of any matter relating to this contract or to the services, as faithful advisers to the client. The consultant shall take all steps to take action in accordance with the technical sanction/agreement of works contract between APIIC and work contractor.

The consultant can also submit recommendation for betterment of the work regarding quality, quantity, economy and progress of work in general to the ED. The consultant has to thoroughly check the quality and quantity in terms of prevailing IS codes and procedures and to satisfy the technical sanction accorded for the subject work and has to feel responsibility for the work with respect to quality, and quantity as referred in technical sanction and deviations there upon approved by the technical sanction authority.

### 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 of the Service 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. If any other contract engaged is related to the consultant in any manner it shall forthwith inform the same to the client and the client shall be competent to take appropriate decision for such works.

### 3.3 **Confidentiality:**

The Consultants, and the personnel of either of them shall not, either during the term or within Two (2) years after the expiration of this contract, disclose any proprietary or confidential information relating to the Project, the services, this contract or the clients business or operations without the prior written consent of the client.

### 3.4 **Consultant actions requiring Clients Prior Approval**

The consultant has to obtain prior written approval from the client

- I. For conducting special tests at any recognized laboratories at no extra cost and does the consultant have its labs owing the responsibility for the correctness of the report.

II. For engaging any retired/in service government /PSU engineers of Andhra Pradesh.

**3.5 Reporting System:**

The consultant shall submit the test reports to the clients on weekly basis as per terms of reference.

The consultant would collect the information from the work site through detailed formats by carrying out relevant tests and base information along with data will be submitted to concerned General Manager(QC) and forward the copies to the zonal Manager and consolidated information to VC&MD. All the information, work wise, would be documented in a register.

**3.6 Documents Prepared by the Consultants will be the Property of the Client.**

All plans, drawings, specifications, designs, reports and other documents submitted by the consultants would remain the property of the client only.

**4.0 CONSULTANT PERSONAL:**

As per the terms of reference adequate man power would be deputed on the work site to carryout necessary tests and preparation of reports. The consultant would depute adequate & properly trained/qualified manpower and other resources at respective locations based on workload and specific requirement. All the liabilities of man power working on the works would be with consultants, and they shall not be treated as employee or engaged by the client.

**5.0 PAYMENT TO THE CONSULTANTS:**

The payment to the consultant along with service tax would be made to the consultants specified in the payment schedule in the SC.

**6.0 SETTLEMENT OF DISPUTES:**

Any dispute arising out of this contract, which amicably not settled between the parties, to solve it initially, same, would be presented only to the department committee comprising VC & MD and Chief Engineer and Zonal Manager concerned and consultant.

### **III SPECIAL CONDITIONS OF CONTRACT**

#### **1.0 BRIEF description of task:**

This task involves assisting the client in ensuring good quality of works like Civil, Electrical, Water Supply System and etc. being taken up by APIIC.

#### **2.0. Back Ground:**

The APIIC is executing works in the entire AP state and infrastructure being created in Industrial Parks, IDA,s SEZs, and Autonagar and any other works executed by the APIIC in all respects.

The works includes:

- a. Formation & metalling and providing BT/CC to the roads.
- b. Improvement of roads.
- c. Improvements to parks and landscaping.
- d. Traffic dividers, foot paths, traffic islands.
- e. Construction of shopping complexes/corporate buildings/Factory sheds/any other buildings.
- f. Water supply
- g. Storm water Drains/sewerage/Effluent treatment schemes & disposals.
- h. Providing power supply internal & external including street lights.
- i. Other Civil works as entrusted etc including interiors & exteriors developments.

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 required pre construction QA checks.
- II. Carry out required QA checks during construction.

### III. Carry out required QA checks post construction.

The role of quality Assurance consultant shall include conducting required 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 level of officers through weekly report and suggesting, interaction with various authorities as and when requires. All the tested and quality assurance inspections would be conducted at required stages and as per the laid down specifications.

- a) Establishment of central reporting station at Vijayawada for all kind of communications by weekly/stage wise reporting to concerned chief Engineer/Zonal Managers.
- b) District wise team would be working in respective sites for conducting QC tests.
- c) Field staff with mobile testing equipment for onsite inspections including required checks of the works.

### **3.1 The following tests to be conducted.**

#### **3.1.1 GENERAL TESTS ON MATERIALS**

1. Test on cement
  - a) Standard Consistency
  - b) Fineness
  - c) Initial and final setting times
  - d) Soundness
  - e) Compressive strength
  - f) Specific gravity
2. Tests on fine aggregate
3. Tests on coarse aggregate
4. Compressive strength of concrete (Cubes)
5. Tension test on steel rods
6. Tests on Bricks
7. Concrete Mix design
8. Sieve Analysis of fine coarse aggregates

#### **2.1.2. Test on Roads**

1. Test on Bitumen
  - a) Penetration

- b) Softening point
  - c) Flash & fire point
  - d) Ductility test
  - e) Solubility test
  - f) Loss on heating
  - g) Specific gravity
  - h) Bitumen extraction test
2. Tests on Coarse Aggregates
- a) Impact value
  - b) Crushing value
  - c) Loss Angles abrasion
  - d) Flakiness/Elongation Index
  - e) Water absorption
  - f) Specific gravity
  - g) Stripping value
3. Tests on Fine aggregates
- a) Specific gravity
  - b) Bulking
  - c) Density
  - d) Soundness tests 5 cycles
4. Mix design
- a) Job mix formulae for anyone of MB. DMB,BC Mix seal etc.
  - b) Pavement Quality concrete (PQC), RCC, PCC.
  - c) Marshal stability testing on bituminous.
- Mixes or hardness test for mastic asphalt on prepared sample
5. Field test
- a) Pavement design of sub-grade by CBR method.GSB tests
  - b) WBM tests
  - c) Laying jointing and pipe line test
  - d) Other tests like electrical works as per IS specifications for cables and and materials agreement, specifications of contractors.
- 2.1.3 Building items
- a) Aluminum powder coating
  - b) Un plasticized poly vinyle chloride (UPVC)  
Doors, windows and ventilator
  - c) Wooden items relevant tests
  - d) Relevant tests on glass
  - e) Physical properties of necessary steel items
  - f) Relevant tests on tiles
  - g) Relevant test on painting

#### 2.1.4 Water Supply & Sanitary items

- a) Relevant tests on water supply & sanitary items

2.1.5 The following Electrical tests to be included and the tests to be done at CIPET (Central Institute of Plastics Engineering Technology) or Vimta Labs or equivalent labs.

#### 1. On Wires/UG cables

- a. Resistance test
- b. Insulation tests
- c. High Voltage test
- d. Short circuit test
- e. Continuity Test

#### 2. On Equipment

##### a. D.G set

- Load test for 0%,25%,50%,75%,100% and 110%

##### b. A.C Equipment

- Temperature Test

3.1.3 In addition, the consultant need to check the manufactures test certificates for the materials like pipes & Fittings, electrical items steel, cement, Bitumen (for Grade) etc. The contractor will have to provide these certificates, to the consultants at the time of inspection.

3.1.4 The consultant shall faithfully conduct tests/checks and sampling required to be executed as Andhra Pradesh Standard specifications/IRC specifications/MORTH/1<sup>st</sup> PH & MED specifications by the contractors.

3.1.5 The consultant will be fully responsible for the authenticity of the test results and submit test results in original to the Dy. General Manager (QC), QC wing without hindrance of work.

3.1.6 Assessment about the process involved in the construction, like curing, pitting etc.

### 3.1.7 INDICATIVE LIST OF EQUIPMENTS

1. Survey instruments including total station
2. Equipment for condition survey on road and bridges
3. Sieves of all sizes i/c sieve shaker and balances of requires capacity
4. Cube strength testing machine
5. Core cutting machine
6. Equipment for cement testing
7. USPV (ultra Sonic Pulse Velocity) Meter
8. Moisture Meter
9. Hammer of all sizes require to be used in building work
10. Rebound hammer
11. Leak Detection Equipments
12. Other miscellaneous equipments such as Screw Driver, Plumb-bob Ovens, Slump Cone, graduated measuring Cylinders of required capacity, gauge Tape Vernier Caliper, Magnifying Glass, Spirit Level, Vibration Table, Dial Gauge etc.
13. Project Specific instrument, if required.

### 4.0. Procedure of Inspection

- The field quality assurance staff at the site, which will be headed by one senior Manager/Engineer, would inspect the construction and other activities. Field quality assurance team would consist of a number of Managers/Engineers from the discipline of civil engineering and one from the discipline of electrical engineering. The consultant would be provided schedule of works likely to be executed in the next week by concerned Zonal Manager so that consultant may plan weekly programme in advance besides this, there would be Junior Engineers/Supervisors having similar specialization as mentioned above, Lab technicians and field Assistant. However, the exact composition will depend upon the, scope of work and the work load based on number of contracts executed by APIIC of respective Zones.
- After obtaining the construction programme and the work schedule from C.E/ZM a joint visit of the APIIC to the sites for inspection and overall appraisal shall be undertaken.
- All test, checks are to be carried out as per relevant IRC/MOST/MORTH codes and IS specifications, APSS and as per rules, agreements and Drawings for qualitative and quantitative analysis.
- The Consultant shall make its own arrangements for transport including local travel and his office accommodations.

- The consultant shall be supplied with all the latest construction drawing and contractors agreement along with technical specifications and interact directly with CE/ZM/concerned work.

#### **5.0. Schedule of Inspection:**

The following inspection schedule shall be adhered by the consultants field quality Assurance team, Surprise checks every day or alternative day or depending upon the job requirements. The Manager/engineer will identify the items and the location on site, which will be inspected upon by the Assistant Managers/site engineers for the next working day. The concerned engineer of APIIC would be responsible for regular supervision of contraction work & workmanship of all the construction works. The Contractor would be advised not to carryout important activity of construction without prior information to concerned Chief Engineer/Zonal Managers as well as third party assurance consultants.

#### **6.0. Reporting system:**

Documentation of the reports duly signed & authenticated on each work taken up in the APIIC with work wise photographs before commencing, during and after execution with final sets of report would be submitted to the General Manager (QC), APIIC, Vijayawada, with a copy to concerned Zonal Managers. Further consultant has to submit summary of the report to Vice Chairman & Managing Director on weekly basis and final compliance report will be issued to work by quality control wing of APIIC based on the report.

#### **7.0. Price & Payment Schedule**

##### **7.1 Consultancy fee:**

The Consultant fee @ \_\_\_\_\_ for the Quality Assurance will be on value of work done by the contractor.

##### **7.2 Service Tax:**

In addition to above, client would pay as applicable service tax on consultancy fee(or as stipulated by the Government from time to time) toward service tax to the consultant on each payment and the same would be deposited by the consultant to the Central Excise department and its copy of receipt would be submitted to the APIIC from where the payment is made to the consultant (OR) the client themselves will remit the service tax to Central Excise department in favour of consultant.

##### **7.3 Payment Schedule:**

The consultant shall raise the invoice after certifying the quality of work. The client through Demand Draft would make the payment payable in favour within 2 (two) weeks time after submitting the invoice by the consultants.

- 7.4 Standard Deductions: Standard deduction from the consultancy fee would be made as per the Income tax law applicable in India.

## **8.0 Indemnity**

In case the quality of any work is found inferior to the specification given to Quality assurance consultant, during the Quality check by the State Vigilance department, APIIC authority, or any authority the Consultant shall indemnify the Government to an extent of total consultancy fee payable for that work and in addition to the above forfeiture of the security amount deposited with the Corporation

Apart from the above the consultant shall also be black listed and make them ineligible for getting such tasks/assignments from Government Department for a minimum period of two years and maximum period of 7years.

## **9.0 Other Conditions:**

- 9.1 The Consultants reporting shall be of recommendatory nature informing the APIIC Ltd. About the quality of materials, based on test results and field observations.
- 9.2 The Construction schedule of various works for which quality inspection is required will be given to the consultant by concerned CE/ZM/GM(QC) /DZM (E)/ APIIC Ltd well in advance. The programme of critical activities to be executed for the consequent month will also be given 15 days in advance.
- 9.3 In case of emergency consultant will have to submit specific report of that concerned work as indicated by the client.
- 9.4 Any delay in carrying out necessary quality checks to process further progress on the work and damages to that effect will be on the part of the consultant.
- 9.5 Terms of references and appendix A will be part of the contract.
- 9.6 Defects liability period is 24months from the date of completion of agreement in all respects. The Corporation shall retain security deposit till the expire of 24 months defects liability period.

## **10.0 Period of Agreement:**

Agreement validity period is 2 years i.e from the date of entering into the agreement or extended from time to time on Mutual agreed.

### **Nature of the works:**

Providing quality control services in respect of the APIIC work for ensuring quality by way of quality control checks and offering Quality Auditing services i.e 3<sup>rd</sup> Party inspections for the following components.

- a. Formation & metalling and providing CC/BT with CD works
- b. Improvement of roads.
- c. Improvements to parks and land scaping.
- d. Traffic divides foot paths, traffic signals.
- e. Shopping complexes/corporate building/factory sheds/any other buildings.
- f. Water Supply including OHTs, distribution system etc.
- g. Strom water drains/sewerage/Effluent treatment schemes & Disposal.
- h. Providing power supply internal & external including street lights.
- i. Other Civil works are executed etc including interiors & exteriors developments
- j. Construction of common effluent treatment plants, sewerage treatment plants etc.
- k. Bridges
- l. Revetment works and if any works entrusted by APIIC Ltd.
- m. Providing street lights, PIE works, laying of LT/Ht luminaries.

### **Terms of reference and job requirement**

- a. Establishment of central reporting station at Vijayawada for all kinds of communications bi weekly reporting to APIIC and other levels of officers.
- b. Regional reporting stations with laboratory facilities with adequate technical staff where ever felt necessary.
- c. Zone wise unit to be located for conducting QC tests with adequate engineers for the APIIC works.

In witness both the parties have.....

Consultant Represented by

Client Represented by

- d. Field staff with mobile testing equipment for site inspection
- e. For items b & C organization chart with qualification technical staff & detailed work plan.
- f. The 3<sup>rd</sup> party inspections include the following tests to be carried out for quality checks:- GSB tests, WBM tests, test for aggregates, sand, cement, steel, concert cube testing, non destructive tests for CC Works, Test for basic piping materials, laying jointing and pipelines testing and all required tests with reference to the drawings and standard specifications.
- g. All tests checks are to be carried out as per relevant IRC codes and IS Specification APSS and as per IE Rules, agreements and Drawings for quantities and detail analysis.
- h. 100% quality checks in respect of all works and required checking for site measurement and reporting.
- i. Documentation of the reports on each work taken up for APIIC works and Photographs to be taken and certification for release of payments and after executing & finals bills submitted to the department.
- j. Check for in all aspects and certification for release of payments and final QC Clearance certificate will be issued by Quality Control/filling.
- k. The financial offer shall be for quality assurance inspections, & carrying all tests.

## APPENDIX-RELEVANT CODES

The quality of materials and works are checked with respect to the corresponding IS code and APSS & MORTH Specifications and all amendments.

| S.No.      | Description  | I.S. No.          |
|------------|--|-------------------|
| A)         | List of Indian Standards   |                   |
| <b>I</b>   | <b>CEMENT</b>  |                   |
|            | 1. Ordinary and Low heat Portland Cement   | 269-1989          |
|            | 2. Pozzolana Portland Cement   | 1489-1991         |
| <b>II</b>  | <b>AGGREGATES</b>  |                   |
|            | 1. Aggregates, Coarse & Fine from Natural resource of concrete   | 383-1970          |
|            | 2. Sand and Masonry Mortar   | 2116-1980         |
|            | 3. Methods of tests for aggregates for concrete<br>Part-I Particles size and shape<br>Part-II Estimation of deleterious Material<br>Organic impurities<br>Part-III Soundness | 2386-1963         |
|            | 4. Specification for test sieves Part-I wire cloth test sieves   | 460-978 Part-I    |
| <b>III</b> | <b>BRICKS</b>  |                   |
|            | 1. Common burnt clay building bricks   | 1077-1992         |
| <b>IV</b>  | <b>STEEL</b>   |                   |
|            | 1. Mild steel medium tensile steel bars and hard drawn steels wire, concrete reinforcement.<br>Part-I Mild Steel & Medium tensile Steel Bars.                                | 432-1982          |
|            | 2. High strength deformed steel bars and wires for concrete reinforcement  | 1986-2008         |
|            | 3. High Tensile Steel for PSC Pipes  | 1784-1998(Part-I) |
|            | 4. Hand Drawn Wire   | 432-1982          |
|            | 5. Bending and Flexing bars for concrete reinforcement   | 2502-1963         |
|            | 6. Recommendations for detailing of reinforcement in reinforced concrete works   | 5525-1960         |
| <b>V</b>   | <b>CONCRETE</b>  |                   |
|            | 1. Plain and reinforced concrete, code of practice for   | 456-2000          |
|            | 2. Laying of situ cement concrete flooring   | 2571-1970         |
|            | 3. Sampling and analysis of concrete   | 1199-1959         |
| <b>VI</b>  | <b>MASONRY</b>   |                   |
|            | 1. Brick Masonry   | 2212-1991         |
|            | 2. Construction of Stone Masonry   | 1597-1992         |
| <b>VII</b> | <b>PIES AND FITTINGS</b>   |                   |
|            | 1. Asbestos Cement pressure pipes  | 1592-2003         |

|      |  |                         |
|------|--|-------------------------|
|      | 2. Concrete pipe with & without reinforcement  | 458-2003                |
|      | 3. PSC Pipes (including fittings)  | 1343-1980               |
|      | 4. Method of tests for concrete pipes  | 458-1988<br>3597-1998   |
|      | 5. Materials for MS Specials   | 226-1976 &<br>2062-1999 |
|      | 6. Specification for MS Special for PSC Pipes  |                         |
|      | 7. Specification for steel cylinders reinforced concrete pipes   | 1916-1989               |
|      | 8. Methods of tests of concrete pipes  | 3597-1998               |
|      | 9. Centrifugally cast (Spun) iron pressure pipes for water gas and sewage including fittings                   | 1536-2001<br>784-2011   |
|      | 10. Specifications for centrifugally cast (Spun) SI fitting for Water Gas and Sewage                           | 8329-2000               |
|      | 11. DI fitting for pipes for water, gas and sewage   | 9523-2000               |
|      | 12. Dimensional Requirement of rubber gaskets for mechanical joints and push on joints for use with CIDI Pipes | 12820-2004              |
|      | 13. CI specials for mechanical and push on flexible joints for pressure pipes lines for water and gas sewage   | 13382-2004              |
|      | 14. HDPE Pipes   | IS 4984-1995            |
|      | 15. BWSC Pipes   | IS 15155-2002           |
|      | 16. UPVC Pipes   | IS 4985-2000            |
|      | 17. GRP Pipes  | IS 12709-1994           |
|      | 18. Horizontally cast iron double flanged pipes for water, gas and sewage.                                     | 7181-1986               |
|      | 19. Cast iron fittings for pressure pipes for water, gas and sewage  | 1538-1993               |
|      | 20. Cast iron detachable joints for use with asbestos cement pressure pipes                                    | 8794-1988               |
|      | 21. a) Rubber rings for jointing CI Pipes, RCC Pipes and AC Pipes<br>b) Rubber rings for jointing PSC Pipes    | 5382-1969<br>5382-1985  |
|      | 22. Rubber rings for jointing AC Pipes with AC Coupling  | 10292-1988              |
|      | 23. Pig lead   | 782-1978                |
|      | 24. Hemp Yarn  | 6587-1987               |
|      | 25. Rubber insertion to be used jointing CIDF pipes  | 638-1979                |
|      | 26. Bolts & Nuts to be used in jointing CIDF Pipes   | 1363-2002               |
| VIII | WATER SUPPLY FITTING   |                         |
|      | 1. Sluice valves for water works purposes (50 to 300mm dia size)   | 780-1984                |
|      | 2. Sluice valves for water works purposes (300 to 1200mm dia size)   | 2906-1984               |
|      | 3. Surface boxes for sluice valves   | 3950-1979               |

|        |  |   |
|--------|--|---|
|        | 4. Manhole covers and frames, cast iron  | 1726-1991   |
| IX     | LAYING OF PIES   |   |
|        | 1. Laying of Asbestos and Cement pressure pipes  | 6530-1972   |
|        | 2. Laying of Concrete pipes-I  | 783-1985  |
|        | 3. Laying of Cast – Iron Pipes   | 3114-1994   |
|        | 4. Laying of PSC Pipes   | 126of APSS & 783-1985   |
|        | 5. Laying of PSC Pipes   | 126of APSS & 783-1985   |
| X      | MACHINERY  |   |
|        | 1. Batch type concrete mixer   | 1791-1985   |
|        | 2. Sheep foot roller   | 4616-1968   |
| XI     | SAFETY   |   |
|        | 1. Safety for excavation works   | 3764-1996   |
|        | 2. Safety code for scaffolds and ladders Part-I scaffolds<br><br>Part-II- Ladders                                | 3696-1987 (Part-I)<br>3696-1991(Part-I)                           |
| XII    | Earthwork and formation of SS Tanks  |   |
|        | 1. Method of test of soils for suitability of soil for embankment of SS Tanks                                    | 2720-1975 TO 1987 Part-II to XII, XV XVII, XX, XXIX and 1228-1988 |
|        | 2. Code of practices for drainage system for earth and rock fill dams  | 9429-1999   |
|        | 3. Filters materials requirement   | 9429-1980 & 10379-1982  |
|        | 4. Earthwork and formation of embankment for SS tanks  | Sec.3of APSS Sub. Sec.301-303                                     |
|        | 5. Morrum (gravel) bracking to rough stone dry packing and gravelling to top and side slope of bunds 150mm thick | Sub Sec.621 of Sec.VII of APSS TO 307                             |
|        | 6. Rough stone dry packing aprons and revetments   | Sub – Sec 621 of Sec.6 of APSS                                    |
| XIII   | Filtration Plants with dual media and tube settlers  |   |
|        | 1. Guide lines for flauculator devices   | 7208-1992   |
|        | 2. Guide lines for rapid mixing devices  | 7090-1985   |
|        | 3. Recommendations for handing and housing devices for chemicals for water treatment                             | 9222-Part-I, 1990   |
|        | 4. Requirement for chlorination equipment  | 10553-1983(Part-I)  |
|        | 5. Recruitments for setting tank (clarified equipment for water treatment plant)                                 | Part-IV 10313-1983  |
|        | 6. Requirement of water filtration equipment   | 8419-77 Part-I, Part-II-1984                                      |
| Sl.No. | <b>Brief Description of Item</b>   | APSS/MOST.Nos.  |

|     |  |                                   |
|-----|--|-----------------------------------|
| 1.  | Providing gravel base at OMC to obtain 98% proctors  | 138,1503 to 1505 and 1516 of APSS |
| 2   | Providing, laying, spreading and compacting stone aggregates (Graded metal)                    | 108,1506 of APSS                  |
| 3.  | Cleaning of existing WBM SURFACE   | 502,502.4 of mot                  |
| 4.  | Cleaning of existing BT Surface  | 502.4.2 of most                   |
| 5.  | Providing and applying black coat over prepared surface  | 503 of most                       |
| 6.  | Providing and laying Bituminous Macadam  | 504 of Most                       |
| 7.  | Providing and laying and consolidation of creased stone aggregate as per built up spray Grout. | 1507                              |
| 8.  | Providing and laying single coat surface dressing  | 508                               |
| 9.  | Providing and laying single open graded premix carpet  | 509                               |
| 10. | Providing and laying mix seal surfacing  | 510                               |
| 11. | Providing laying, consolidation dense bituminous concrete                                      | 511                               |
| 12. | Providing laying BT surface dressing/BT wearing coat   | 1510                              |
| 13. | Providing laying bituminous seal coat with 6mm chips   | 1512                              |
| 14. | VCC for abutments, piers and wing walls  | 402 of APSS                       |
| 15. | VRCC for wearing coat  | 402,403 of APSS                   |
| 16. | Providing HYSD Fe 415 grade Bars/Mild steel Fe 250 grade bars                                  | 126 of APSS                       |
| 17. | CRS Masonry for abutment and piers   | 601,612 of APSS                   |
| 18. | Flush pointing to CRS masonry  | 906 of APSS                       |
| 19. | Collection of material road works  | 1506 of APSS                      |
| 20. | CC roads   | 1515 of APSS                      |

## FINANCIAL BID

(To be submitted in separate cover)

### BID OFFER

We M/s \_\_\_\_\_ hereby offer to render 3<sup>rd</sup> Party Quality Control Assurance Agency services for Engineering works of APIIC as indicated in the scope of work and as per the Terms & Conditions in this document at \_\_\_\_\_ % \_\_\_\_\_ (in works) on value of work executed.

Note:

- a) Percentage to be quoted in words and figures
- b) Quoted percentage is exclusive of service tax
- c) Payment to the consultant at quoted percentage will be made on actual value of work excluding LS provision, Taxes etc.,

### CONSULTANTS

#### FOOTNOTE TO BID OFFER:

1. The Consultants shall carefully fill the bid offer both in figures and words in terms of percentage. Over writing shall not be permitted. Errors if any in the bid offer shall be corrected by striking out and rewriting clearly and initiated.
2. If any difference is found in the bid offer between the percentage given by the consultants in words and figures the lower of the two shall only be considered.
3. The bidder is not allowed to make any alterations to the terms & Conditions. For any such alteration the offer of the consultants is liable for rejection.
4. If two or more bidders offer the same percentage then selection of bidder will be based on their credentials, performance experience in handling similar projects
5. The APIIC reserves the right to reject any bid or all the bids without assigning any reason therefore.
6. Conditional bid/offer will not be accepted.

**Sd/-  
Chief Engineer-I**