



**GOVERNMENT OF ANDHRA PRADESH,
Amaravati Development Corporation, Vijayawada,
Andhra Pradesh**



**EXPRESSION OF INTEREST FOR SELECTION OF PROJECT
MANAGEMENT CONSULTANT FOR FLOOD MANAGEMENT
WORKS, AMARAVATI**

[AMARAVATI SUSTAINABLE CAPITAL CITY DEVELOPMENT PROJECT]

REQUEST FOR EXPRESSIONS OF INTEREST (ICB) FOR CONSULTING SERVICE FIRMS SELECTION

COUNTRY: INDIA

WORKS: CONSTRUCTION OF FLOOD MANAGEMENT WORKS IN
AMARAVATI, NEW CAPITAL CITY OF ANDHRA PRADESH

PROJECT: AMARAVATI SUSTAINABLE CAPITAL CITY DEVELOPMENT
PROJECT, AP NEW CAPITAL CITY, AMARAVATI.

PROJECT NUMBER: P159808

The Government of Andhra Pradesh has applied for financing from the World Bank toward the cost of the Amaravati Sustainable Capital City Development Project (ASCCDP), and intends to apply part of the proceeds for consulting services. This Project will be co-financed by Asian Infrastructure Investment Bank (AIIB).

The Amaravati Development Corporation Limited (ADC) invites eligible consulting firms ("Consultants") to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. Minimum shortlisting requirements are:

1. Average Annual Turnover of the Consultant from Consultancy Business of similar nature shall be at least Rs. 50 Crore for last 5 years.
2. Should have performed/experience as PMC/Independent Engineer/Authority's Engineer of a minimum 3 similar works in last 5 years (each project/work shall cost more than INR 250 Crore)

Consultants may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualifications. Please clearly state the nature of association while submitting your Expression of Interest.

A Consultant will be selected in accordance paragraph 3.14 of the World Bank's Procurement Regulations for Borrowers [July 2016] ("Procurement Regulations"), setting forth the World Bank's policy on conflict of interest and the method set out in the Procurement Regulations.

Further information can be obtained at the address below during office hours 1000 to 1800 Hours and the details ToR can be seen and downloaded from ADCL website (<http://ccdmc.co.in>) and UNDB website (<https://www.devbusiness.com>).

Expressions of interest in sealed envelope must be delivered to the address below at ADC office (in person, or by mail, or by fax, or by e-mail) latest by Dt.16.05.2018, 15:00hrs.

Authority reserves the right to accept or reject any proposal, and to cancel the procurement process and reject all proposals, at any time prior to the award of contract, without assigning any reason thereof.

Contact Person: Dr. K.V. Ganesh Babu, Head (IPD)

Mobile: (+91) 7095599572; Email: ganeshbabu.adc@ap.gov.in

ADDRESS:

For the Kind Attention:

Sri. T. Moses Kumar

Chief Engineer

Amaravati Development Corporation Limited

20-4-15, Plot No.1G, Anand Heights

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1 Draft Terms of Reference (ToR)

Expression of Interest for Selection of Project Management Consultant for Flood Management Works, Amaravati

The Government of Andhra Pradesh (GoAP) proposes to establish 'Amaravati', a world class capital city for the newly formed State. The proposed capital city area is bestowed with rich natural features including hillocks, river, islands, abundant water, fertile soil and greenery. Under the vision of developing a sustainable and green Capital city, the GoAP plans to develop comprehensive network of brown field and green field urban waterways, robust flood management systems and develop its riverfront. The capital city development is proposed to be over an area of about 217 km². The proposed capital city is situated in the lower reaches of Kondaveeti Vagu (a minor stream draining into Krishna river) catchment area.

1.1 Description of the Works

Amaravati Development Corporation (ADC), which is the nodal agency for development of proposed capital city has planned to take up the execution of flood management works for the capital city in a phased manner. Accordingly, ADC intends to implement the works for improvement of Kondaveeti Vagu canal between Undavalli and Neerukonda (excluding Krishnayapalem reservoir portion). The alignment of Kondaveeti Vagu canal proposed to be taken-up for execution, is shown in the drawings enclosed. The scope of works under this contract shall include but not be limited to the following, including all necessary temporary and enabling works:

1. Widening and deepening of Kondaveeti Vagu (approx. 23.60 km) and (b) Widening and deepening of Pala Vagu (approx. 16.70 km)
2. Construction of Gravity Canal (7.83 Kms)
3. Construction of Krishnayapalem Reservoir (0.1 TMC)
4. Construction of Neerukonda Reservoir (0.4 TMC)

5. Construction of canal embankment
6. Construction of seepage observation wells
7. Construction of Chainage and benchmark pillars

Details of the Works are as below:

Package No	Package Details	Estimated Cost (Rs Crore)
Package XIX	(a) Widening and deepening of Kondaveeti Vagu (approx. 23.60 km) and (b) Widening and deepening of Pala Vagu (approx. 16.70 km) on BoQ basis through National Open Competitive Procurement in Amaravati, the New Capital City of Andhra Pradesh	288.47
Package XX	Construction of Gravity Canal (7.83 Kms) And Construction of Krishnayapalem Reservoir (0.1 TMC) On BOQ Basis Through National Open Competitive Procurement (NCB) In Amaravati, The New Capital City of Andhra Pradesh	253.38
Package XXI	Construction of Neerukonda Reservoir On BOQ Basis Through International Competitive Procurement (ICB) In Amaravati, The New Capital City Of Andhra Pradesh	371.01

ADC intends to appoint a Consultant having sufficient experience in providing Project Management Consultancy services including Supervision, Quality Assurance & Quality Control services and other similar nature of services. In pursuance of the above, the “ADC” has decided to carry out the process for selection of a consultant for Providing Project Management Construction Services (PMC) for Construction of Flood Management Works (3 packages) in AP New Capital City, Amaravati. The complete consultancy service envisaged here is time bound.

1.2 Objectives

Main objectives of consultancy service areas under:

- i. Consultant will assist the “ADC” in bid evolution processes of the contract of

- construction works.
- ii. Consultant will coordinate with other consultants in getting the structural designs and drawings and get it proof checked from the proof checking consultants as selected by “ADC”.
 - iii. Consultant will study the approved structural drawings and coordinate with the contractor in construction under the intimation to “ADC”.
 - iv. For proper management of works contracts, consultant shall work as "Engineer" in terms of work contracts.
 - v. Completion of the work within the stipulated period of completion. Consultant will be especially responsible for quality and timely completion.
 - vi. To achieve efficiency and overall economy in execution of the project and implementation of projects duly avoiding expected site related problems to a great extent.

2 Scope of Services

Assistance in site supervision of construction works and checking recording measurements of construction works, preparing bill for its payment and timely completion of project with quality, Documents & Drawings Controlling, up keeping all Records till completion of works and handover all records and data to ADC at the closure of the project works.

Broad scope of work shall be, but not limited to:

Project Management Consultancy (PMC) for: - Construction of Flood Management Works (3 Packages) in AP New Capital City, Amaravati

**2.1 STAGE 1: PRE-TENDER STAGE OR PROJECTS PREPARATION:
DELETED**

2.2 STAGE 2: TENDERING STAGE: DELETED.

2.3 STAGE 3: POST-TENDERING STAGE

While providing the services under this stage, the Consultant shall adhere to international standards and norms pertaining to quality of work, specifications, procedures, project management etc. During this stage, following works are included:

2.3.1 To review design and drawings of DPR with respect to site conditions and suggest modifications where needed, review contractor's construction Programs, key personnel and mobilization, review Contractor's Work Program, activity scheduling, resource programming, approve & issue working drawings including variations thereof, inspect works during construction period and DLP and issue DLC after rectification by contractor of defects, write Daily Project Diary recording all events pertaining to administration of contracts, requests from/orders given to contractor and any other relevant information, write Daily Project Diary recording all events pertaining to administration of contracts, requests from/orders given to contractor and any other relevant information.

2.3.2 To review and recommend any changes in design, if proposed by the

Contractor during execution of project.

- 2.3.3 To review the designing of structures, if required at any stage due to any reason.
- 2.3.4 Review, inspection and monitoring of Construction Works.
- 2.3.5 Conducting Tests on completion of construction and issuing Completion/Provisional Certificate.
- 2.3.6 To review the quality assurance manual, quality assurance plans, method statements, maintenance manual, 'as built drawings' and suggest modifications, if required.
- 2.3.7 Determining, as required under the Agreement, the costs of any works or services and/or their reasonableness;
- 2.3.8 Determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation; assisting the Parties in resolution of disputes.
- 2.3.9 To assist The "ADC" in periodical meetings to review progress achieved with respect to the approved Program.
- 2.3.10 The Consultant shall discharge its duties in a fair, impartial and efficient manner, consistent with the highest standards of professional integrity and Good Industry Practice.
- 2.3.11 The Consultant shall review the monthly progress report and send its comments thereon to the "ADC".
- 2.3.12 The Consultant shall inspect the Construction Works and make out a report of such inspection (the "Inspection Report") setting forth an overview of the status, progress, quality and safety of construction, including the work methodology adopted, the materials used and their sources, and conformity of Construction Works with the Scope of the Project and the Specifications and Standards. In a separate section of the Inspection Report, the Consultant shall describe in reasonable detail the

lapses, defects or deficiencies observed by it in the construction of the projects. The Consultant shall send a copy of its Inspection Report to the “ADC”.

2.3.13 For determining that the Construction Works conform to Specifications and Standards, the Consultant shall require carrying out, or cause to be carried out, tests in accordance with Good Industry Practice for quality assurance. The Consultant shall issue necessary directions to the Contractor for ensuring that the tests are conducted in a fair and efficient manner, and shall monitor and review the results thereof.

2.3.14 The timing of tests referred to, and the criteria for acceptance/ rejection of their results shall be determined by the Consultant in accordance with the Quality Control Manuals. The tests shall be undertaken on a random sample basis and shall be in addition to, and independent of, the tests that may be carried out by the Contractor for its own quality assurance in accordance with Good Industry Practice.

2.3.15 In the event that the Contractor fails to achieve any of the Project Milestones, the Consultant shall undertake a review of the progress of construction and identify potential delays, if any. If the Consultant shall determine that completion of the project is not feasible within the time specified in the Agreement, it shall require the Contractor to indicate within 15 (fifteen) days the steps proposed to be taken to expedite progress, and the period within which the Project Completion Date shall be achieved. Upon receipt of a report from the Contractor, the Consultant shall review and send its comments to the “ADC” and the contractor forthwith.

2.3.16 If at any time during the Construction Period, the Consultant determines that the contractor has not made adequate arrangements for the safety of workers and Users in the zone of construction or that any work is being carried out in a manner that threatens the safety of the workers and the Users, it shall make a

recommendation to the “ADC” forthwith, identifying the whole or part of the Construction Works that should be suspended for ensuring safety in respect thereof.

2.3.17 In the event that the Contractor carries out any remedial measures to secure the safety of suspended works and Users, it may, by notice in writing, require the Consultant to inspect such works, and within 3 (three) days of receiving such notice, the Consultant shall inspect the suspended works and make a report to the “ADC” forthwith, recommending whether or not such suspension may be revoked by the “ADC”.

2.3.18 If suspension of Construction Works is for reasons not attributable to the Contractor, the Consultant shall determine the extension of dates set forth in the Project Completion Schedule, to which the contractor is reasonably entitled, and shall notify the “ADC” of the same.

2.3.19 Upon reference from the “ADC”, the Consultant shall make a fair and reasonable assessment of the costs of providing information, works and services and certify the reasonableness of such costs for payment by the “ADC” to the Contractor.

2.3.20 The consultant must note that there are a number of utility services and service roads running along and across project site. Necessarily the scheme should be such as to involve minimum shifting of utility services in consultation with concerned department/Institution.

2.3.21 The consultant should bear in mind that the proposed work should be such that there will be minimum disruption to existing traffic on roads connecting the site, during construction period.

2.3.22 The Consultant shall not sublet the work under this cost.

2.3.23 The consultant shall whenever necessary update the Project Construction Schedule for all activities of the Project including

realistic activity sequences and duration, checking on allocation of labour and materials, approval of procured materials and ensuring delivery of products requiring long lead time and proof checking in case of contractors own designs.

2.3.24 The consultant shall perform all the duties, functions as directed by “ADC”.

2.3.25 The consultant shall exercise powers of “ADC” as well as perform all the duties, liabilities functions and obligations as " Project Manager", except for following for which he shall submit proposals for obtaining specific approval of the competent “ADC”

2.3.26 The consultant shall exercise powers of “ADC” as well as perform all the duties, liabilities functions and obligations as " Project Manager", except for following for which he shall submit proposals for obtaining specific approval of the competent “ADC”

- i. Approving subletting of the work, if any.
- ii. Granting claims to the agency.
- iii. Ordering suspension of the work.
- iv. Determining an extension of time.
- v. Waiving off the penalty and arranging the repayment of compensation for delay.
- vi. Issuing a variation order.
- vii. Ordering any works / test beyond the scope of the contract.
- viii. Determining rates for the extra items / extra work.
- ix. Any variation in the contract condition.

2.3.27 The Team Leader shall be stationed at project location and visit the work site personally from time to time for ascertaining that the work is being carried out satisfactorily and also for studying the problems on the spot and giving necessary clarifications / directions.

2.3.28 The consultant shall engage and retain for the purpose adequate

supervisory staff as agreed upon between the “ADC” and the consultant. The supervisory staff shall consist of skilled and experienced technical men and the consultant shall undertake to keep a qualified and experienced technical Resident / Site Engineer who shall always be in charge of the works and be available on the site until the project is completed.

2.3.29 The Resident Engineer available at site shall receive instruction on behalf of the consultants, which may be given from time to time either by the Chief Engineer, ADC or the Officers duly authorized by “Chief Engineer, ADC”.

2.3.30 The consultant shall ensure that the contractor attends to all observations made during the periodic visits by the various inspecting officers about the quality of work.

2.3.31 The consultant shall deploy staff, transport at the site of work for supervision and constant day to day technical supervision over the construction including checking layout, checking requirements of material and their procurement in time, checking their quality conforming to approved specifications and accepted standard. The consultant shall deploy such staff as is required keeping the quantity and quality of work to be executed.

2.3.32 The consultants shall provide and maintain at their cost, their own vehicles if required for use in connection with their assignment.

2.3.33 Any approval/concurrence by the “ADC” to consultant's instruction, preliminary or detailed engineering design, drawings and estimates shall in no way absolve the consultant to ensure sound construction and performance as per the specifications of the scheme as whole. The appointment of any engineering staff by the “ADC” at the site of the work shall not in any way diminish the responsibility of the consultants in this respect.

- 2.3.34 The consultant shall not have any objection to the “ADC” maintaining any civil engineering staff at its own cost at the site of works to carry out work and duties allotted to them by the “ADC” in respect of works at the site.
- 2.3.35 The Consultant shall scrutinize and shall certify that the work measured recommended for payment be fully consistent with the type, quality and specifications prescribed in the tender and agreement entered into with the contractor(s). In the matter of approving such bills, the consultant shall confirm to the rules and instructions issued by the CE, ADC from time to time.
- 2.3.36 The consultants shall be deemed to guarantee the correctness, scrutinized, checked or issued by them, as to the quality control of the work concerned. CE, ADC or its authorized representative(s) may also check a certain percentage of the measurements and bills as felt necessary as per instructions issued by the “ADC” from time to time.
- 2.3.37 The bill submitted by Contractor in the Measurement Book format shall be scrutinized and recommended for payment along with required support documents/reports/ joint records by Consultant within 7 days of submission of bill by Contractor.
- 2.3.38 The Contractor can avail minimum one bill per month. However, if the contractor fails to prepare and submit two consecutive monthly bills, the Consultant shall prepare the bill of quantities to inform about the progress of work qualitatively and quantitatively if asked by the Engineer in Charge/CE
- 2.3.39 The Consultant shall agree to supervise the work and also agree for taking and recording measurement of all items of work done in measurement books supplied by the CE, ADC. The measurement of hidden items to be taken in the presence of contractor or his authorized representative the consultant shall affix their signature

on the same.

2.3.40 The consultant will process interim and final payments certificates for the contractor's work. In accordance with contract agreement. Interim monthly payments shall be based on interim payment certificates processed by the Consultant on the basis of statements filed by the Contractor. The Consultant should ensure that all the deductions are made as per the Contract provisions before recommending the interim payment certificate. The Team Leader shall intimate the details of these check tests to the CE, ADC before undertaking them, so that the CE, ADC could associate, if they wish to do so. The Consultant or any of his concerned experts shall do the repeat tests or measurements, if directed by the CE, ADC, (in charge of work) in the presence of the same or any of his delegated representatives. In case of any conflict the Consultant may do the test check in presence of the CE, ADC, (in charge of work) To prepare comprehensive checklist for each item of work and guidelines for quality control / quality operations. The quality management plan to be prepared by the contractors will include the following:

- i. To formulate and implement management information / reporting formats, approval slips or pour cards prior to commencement of work perform report, financial forecast, data sheet register etc.
- ii. Checking the centring and shuttering and other temporary work propose to be erected by the contractor.
- iii. To check & approve all the items before commencement. For all-important items of work like concreting operation, the Consultant's engineer shall supervise the operation throughout.
- iv. To ensure that all the work is in line, level and verticality and the finishing are as per approved drawings.
- v. To develop a format of "workmanship index" in respect of all

primary activity carried out for each item of work so that qualitative assessments of the project can be generated to facilitate acceptance criteria for reference and record.

2.3.41 The Consultant shall attend the site inspection and meetings with the higher officers etc. whenever so requested.

2.3.42 To carry out joint principal inspection (detailed inspection) at the end of defect liability period and advising on remedial measure for defects, if any, discovered.

2.3.43 To submit monthly progress reports covering physical progress against targets, financial forecast, analysis of test results and suggestions for corrective actions, quality aspects completion with the tender specifications/ provisions and suggestions for wiping out backlog if any. The progress report shall also include the Consultants inputs on the job for the period of reporting and any other observation.

2.3.44 The Consultant would be responsible for checking the materials, workmanship and soundness of the structures keeping in view Quality Assurance (Q.A.) checks and safety standards. Consultant shall submit monthly progress reports as per the directions of the "ADC" and should also submit recommendations in regards to extra items with supporting site records and also supervise field tests on materials structures etc. in accordance with predetermined schedules, The Consultant shall also maintain adequate records to ensure proper certification of bills for the work done for payment to contractors, including recommendations and extension applications, extra items variation statements, Quality and quantity checked for all bills etc. in forms prescribed by CE, ADC . The Consultant should also hold periodic review meeting with the CE, ADC and contractors and co-ordinate follow up actions. The Consultant should depute adequate and qualified staff for execution

of project. The Consultant should maintain staff attendance register at site and shall be made available for inspection when requested by CE, ADC.

2.3.45 The consultant shall supervise during construction period of the assigned work, ensuring quality control in accordance with tender stipulations, specifications, drawings and site conditions. The quality control will be exercised at all stages of construction, viz. Approval of materials thereof in proper proportion including prescribing norms for tests periodically and acceptability criteria and workmanship at all stages of execution of individual items of work.

2.3.46 The consultant shall ensure proper establishment of field laboratories by contractors, to conduct laboratory tests on materials for construction such as cement, steel, bricks etc. Essential gauges, instruments etc. should be arranged to be calibrated periodically. The consultants shall maintain necessary site records and obtain data in support of the same. The consultant shall ensure all field and laboratory tests on materials of construction as well as partially or completely erected structures etc. are carried out by contractors and maintain adequate records thereof.

2.3.47 The consultant shall suggest to The “ADC” modifications if any, due to site conditions and advising regarding cost variations, on account of extra items and excesses on the contract.

2.3.48 The consultant shall ensure regular and timely flow of working drawing/instructions.

2.3.49 The consultant shall monitor the progress by using modern methods of control such as computerized CPM and submission of progress reports of work executed monthly. Both financial and physical progress reports with reference to prefixed targets will be prepared. Constant review of progress within prescribed time and

cost parameters will have to be done by the Project Manager who will also suggest improvements from time to time.

2.3.50 The consultant shall undertake complete administration and management of contract till expiry of the defect liability period and payment of final dues to the Contractor.

2.3.51 The Consultant shall obtain 5 sets of corrected "AS BUILT" drawings from the contractors/consultants along with soft copy of works carried out THEN ONLY THE FINAL PAYMENT IS TO BE PROPOSED BY CONSULTANT.

2.3.52 The consultant shall undertake preparation of Maintenance Manual in respect of contracted work and further advise the "ADC" by periodical inspection report in writing to be submitted to the Executive in charge/CE during the defects liability period on maintenance requirement, if any.

2.3.53 The consultant shall carry out verification, by taking and recording joint measurements of the final bill to be submitted by the Contractor, preparation and finalization of final bills, as per the items and conditions of Contract Agreement and certificate for release of final payments by the CE, ADC.

2.3.54 The consultant shall advise the "ADC" with regards to extra claim / disputes, if any till Defects Liability Period. The consultant will also be requiring briefing the legal adviser/legal consultant of the "ADC" on cases pertaining to the work. The Consultant shall assist and provides technical support, if any legal or audit problem arises about the project after completion of the project.

2.3.55 The Consultant shall render to the "ADC" every assistant, all technical services guidance or advice or any matter concerning the technical and engineering aspects of the project including periodical interaction and also through invited experts on specific subjects with

“ADC”'s prior approval.

2.3.56 During execution, if any modification is suggested by the CE, ADC, Consultants shall submit the cost & time implementation of the same.

2.3.57 The consultant shall submit Monthly Progress Report, Daily Progress Report to the “ADC”. In addition to this a Video shooting, Photograph shall also be furnished.

2.4 Key Personnel/Professionals required

Position	Total Experience (Years)	Experience in the Position (Years)
Team Leader (Project Manager)	20	5
Resident (Irrigation) Engineer	15	5
Quality and Material Engineer	15	5
Quantity Survey and Billing Engineer	10	5
Environmental Engineer	10	5
Safety Engineer/Officer	10	5
Field Engineers and Technicians	10	5

2.5 Services and facilities to be provided by ADC

ADC shall not provide any services and / or facilities to the appointed consultant at project location/site. The consultants will have to arrange for all facilities/services required to carry out the assigned work on this project at their cost. The financial proposal shall include all the required costs with break-ups. However, introductory / recommendation letters shall be provided to the consultants on requests for obtaining desired services and facilities from concerned authorities for which the consultants shall make payments to the concerned authorities directly. Topo-sheet of restricted areas, if required, will be arranged by the “ADC”.

2.6 Reports

The consultants shall furnish to the “ADC” the following report and documents. All

reports and documents shall be in English.

(i)	Methodology Reports	6 Copies
(ii)	Quality Control Reports	6 Copies
(iii)	Progress Reports	6 Copies
(iv)	Completion Reports	6 Copies

Amaravati Development Corporation Limited 20-4-15, Plot No.1G, Anand Heights, Kedareshwarapet, Vijayawada-520003. Andhra Pradesh. India