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CIN: U65999AP2016PLC103663

Background

Andhra Pradesh Urban Infrastructure Asset Management Limited (APUIAML) is a joint venture company of Government of Andhra Pradesh (GoAP). The board of APUIAML is chaired by Chief Secretary, GoAP. Principal Finance Secretary, GoAP, Principal Secretary, MA & UD are amongst other directors.

The core competency is provision of End-to-End transformation services which include design/development and execution phases of projects in infrastructure sector (such as conceptualization and Concept Plan preparations, carrying out requisite studies/surveys/investigations/assessments, DPR preparation, TA services, PMC services) The sectors under which projects could be categorized comprise of Maritime Sector, Urban Sewerage & Waste Management, Water Supply, Urban Development, Urban Transport, Animal Husbandry, Industries, etc.

APUIAML renders requirement-based services for various government entities; some of those works include Advisory and Strategic Support, Feasibility Studies, Surveys and Investigations, Demand Assessment Studies, TA services (PPP/EPC/SWISS CHALLENGE etc.) including Bid Process Management, Fund Raising Mandates, DPR Preparations, Evaluation Assignments, PMU services, Secretarial Services including running processes for formation/incorporation of SPVs/Companies.

II. Solicitation

In this context, it is required to carry out various surveys such as Topographic survey, Geotechnical survey, Traffic related surveys, Drone survey, SWM related surveys etc. for preparation of DPRs. In this regard, financial quotes are solicited to engage various survey agencies to for conduct of surveys as tabulated below. The scope of work with key ToRs, General Conditions and quote formats are annexed.

#	Survey/Survey Type	Scope of Work
1	Topographic	Annexure 1
2	Geotechnical	Annexure 2
3	Traffic Related Surveys	Annexure 3
3.1	Classified volume count	
3.2	Turning movement count	

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3.3	Road Inventory	
3.4	Parking	
4	Drone	Annexure 4
5	Solid Waste Management Related Surveys	Annexure 5
General Conditions Anne		Annexure 6
Forma	Format for Submission of Quote Annexure 7	
* Please note that the general conditions, payment terms, locations, units etc. are		

indicative.

I. Instructions to Agencies

- a) The agencies are to quote for one or more surveys (survey types) suiting their candidature and competencies.
- b) In order for the quote to be considered for evaluation for a particular survey type, the agency is to quote for all sub-surveys/items within it. For ex. an agency quoting for survey type "Topographic"- should quote for all sub items/surveys i.e., drains, lakes, canals & roads, failing which the quote for that particular 'survey type' will not be considered for evaluation.
- c) The quotes provided shall be exclusive of applicable taxes.
- d) It is to be noted that separate Work Orders shall be given for each survey type. Therefore, APUIMAL as per its procurement policy/discretion may choose different survey agencies for each survey type.
- e) The survey agencies are to submit their quotes in sealed envelopes at the following address on or before 17:00 Hrs, IST, 22.11.2021. The subject on the envelope should be – Quote for Conducting various surveys for APUIAML projects - APUIAML, 4th Floor, NTR Administrative Block, PNBS, Vijayawada
- f) The quotation should be valid for 1 year and as the projects are taken up by APUIAML, shall issue separate letters for each project.
- g) The quotes should be submitted on agencies' letterhead duly signed by the competent authority and shall have the following contact information: (i) Contact Person Name (ii) Contact Mobile No (iii) Contact email ID (iv) Contact Address
- h) For further clarifications, the agencies may contact Mr. Raghunath Reddy Katha on 9000633808, raghunath.katha@apurbna.in / Ms. Anupriya Banerjee on 8897311538, anupriya.banerjee@apurban.in
- This document is also available on the website https://www.apurban.com/

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ANNEXURE 01

KEY TOR FOR CONDUCT OF TOPOGRAPHIC SURVEY

Survey Type	Topographic Survey
Location	Andhra Pradesh
Type of Survey	Drains – in Km Canals – in Km Lakes – in acres Roads – in Km Open Area – in acres
Proposed Scope	As under
Proposed Payment Terms	 Survey drawing on 1: 1000 scale and plotting of spot / Ground levels at thirty meters Intervals (with grid) and at sudden changes in levels and all features and spotting all utilities. Output shall be in electronic version in AutoCAD (2010 version) All levelling calculations shall be submitted in a register along with all field recording data books. All the field data and calculation work shall be done in MS- Excel. All field books, note books, CDs, drawings and other documents containing field data gathered during traverse survey shall be handed over to the client and consultant shall have no claim or use whatsoever. Soft copies of time stamped photographs of survey Final payment shall be paid on actual surveyed quantities 25% Upon deployment of machinery & manpower on site 50 % Upon submission of survey drawings 25% Upon approval of deliverable/s Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall
APUIAML shall j	be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment facilitate in obtaining any permissions if required.

Proposed Scope

The surveys shall be carried out to capture the following using Total Station Survey. All the levels shall be carry forwarded from the nearest GTS bench mark.

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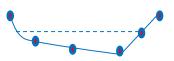
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A. Roads

- i. Longitudinal Levels @ 25m C/C
- ii. Cross Sections at Every 50 C/C and Photos at each Junction
- iii. All physical feature visible on ground like Electrical, Telephone, Street light poles, advertisement poles, manholes, signage boards, trees etc.
- iv. Property Boundaries
- v. Levels required for Carriage way Width, Median Width, Drains, Shoulder and Culverts (nos., length & dia.)
- vi. Chainage of alignment
- vii. Cross Section for Roads, Junctions, Rotaries, Drains, Footpaths, and Connecting roads, Manholes
- viii. Three Levels for Strom water Drains at every 50 m interval and also at every junction (Top Level at both Ends and Invert Level)
- ix. TBMs have to be marked with paint and the of list of TBMs along with the location sketches shall be provided. At least 30% TBMS should be preferably permanent structures. A list of Benchmarks with photos, Coordinates and levels have to be submitted separately.
- x. Each town should be provided with Bench Mark Stone near the Municipal building. The markstones are generally 30 cm x 30 cm x 90 cm in size, and are embedded below ground 2/3rd height and 30 cm above ground.
- xi. Levels have to be carry forward from a nearest permanent/GTS zones mark in any departments.

B. Canals/ Vagu / Drains

- i. Longitudinal Levels @ 50m C/C
- ii. Cross Sections at Every 100 C/C and Photos at each Junction. Minimum 6 points (Water Level, Top level at both ends, one bottom level and two levels in b/w top and bottom level).



- iii. Total Width of Canal/ Vagu from Toe to Teo (external with a buffer zone of 10 m on either side) shall be covered and levels at Top width and toe level, width of top width are required.
- iv. Shall capture the physical features with in the canal ROW, if any (Viz. Manholes, buildings, retaining walls, discharge points of drains, change in direction, change in levels or any other structures etc).
- v. If any structures exists, Levels required at Bottom, top, dia / Size etc.
- vi. Points for Structures, Culverts, Bridges etc.,
- 1. Max Flood Level
- 2. No. of Openings
- 3. Size
- 4. Width
- 5. U/S and D/S levels

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- vii. Pipe line Crossings with level, dia. and material
- viii. Connecting points of Road
 - ix. Shall provide the Longitudinal Section and Cross sections in CAD at the intervals specified above
 - x. TBMs have to be marked with paint and the of list of TBMs along with the location sketches shall be provided at least every km.
 - xi. The TBM mark-stones are generally 30 cm x 30 xm x 90 cm in size, and are embedded below ground 2/3rd height and 30 cm above ground.

C. Lake

- i. Boundary need to cover the total lake area as per revenue records with levels and surrounding features of lakes with a buffer zone of 20 m all sides.
- ii. Points for approach Roads and Connecting Roads
- iii. Minimum of 60 points with in lake for getting the depth of lakes at different points to assess the capacity of the lake. It should provide complete cross section of lakes including width of bunds, levels, any structures etc
- iv. Area should also cover under MFL
- v. Water Level
- vi. All physical features visible on ground like structures, Electrical, Telephone, Street light poles, advertisement poles, manholes, signage boards, trees, islands in lakes, bund width, toe levels gates if any etc.
- vii. Points and mapping of Bund along with road
- viii. Surplus Weir, control gates mapping with all hydraulic levels and dimensions
- ix. TBMs have to be marked with paint and the of list of TBMs along with the location sketches. At least one point per lake.
- x. The TBM mark-stones are generally 30 cm x 30 cm x 90 cm in size, and are embedded below ground 2/3rd height and 30 cm above ground.

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ANNEXURE 02

KEY TOR FOR CONDUCT OF GEO TECH SURVEY

Survey Type	Geotech Survey
Location	Andhra Pradesh
Proposed Scope	As under
Deliverables	Submission of Geo-Technical Investigation Report along with recommendations of foundations, water characteristics, use of soil for backfilling purpose, SBC at various depths, allowable SBC etc.
Proposed Payment Terms	 Estimate quantity will be given at the time of survey. Agency shall quote the rate per running 'm' cost for in different soils Normal Soils In weathered rock/SDR etc. In hard rock Agency shall also indicate the rate Shifting cost with in the project area Mobilisation of equipment each time Cost of sample Since the quantity (number of locations) is more, the work may be entrusted to survey agency in different lots and Payments also shall be based on 'Lot' basis. A 'Lot' is a collection of locations that have to be surveyed together at a time. APUIAML shall finalize 'Lots' considering priority of projects. The following terms for payments are for each 'Lot'. 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.

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Proposed Scope

The survey agency shall carryout the flowing tasks:

- a. Mobilization of equipment and personnel to the project site, setting up the equipment and carrying out the field investigation and demobilization of the same after completion of fieldwork
- b. All the labor, rig, water or any other equipment/infrastructure/material required for making borehole, transportation to site/ laboratory has to be arranged by the agency.
- c. The Survey Agency shall carry out borehole drilling work in all types of strata including hard rock and will take out of samples. All the samples collected from borehole needs to be stored in standard procedure/s.
- d. Drilling of Bore holes up to 15 m depth of 100-150mm/100mm diameter boring (or refusal) in all types of soil, soft disintegrated rock, rock at the identified locations.
- e. Conduct of Standard Penetration test at regular depth intervals of 1.5 m upto the refusal and collect samples for further testing. The test has to be conducted till it reaches a NPT value of 100. However agency needs to call and confirm from APUIAML project manager if the depth exceeds 10 m.
- f. Calculate the Safe Bearing Capacity of Soil for determining type and size of foundations of structures
- g. Borehole drilling and sampling for determining various parameters of foundation
- h. Recording the depth of Ground Water Table
- i. Carrying out Laboratory Investigations on representative soil samples recovered from the Borehole
- j. Submission of Report including field investigation, borehole log showing soil profile, laboratory investigations, test results, interpretation of test results, datasheets, graphical representation of soil parameters, relevant maps and drawings, conclusions and recommendations for ground improvement, net safe bearing capacity of soil, type of foundation etc.
- k. The method of taking samples and the tests on soil samples shall be conducted as per relevant Indian Standard Code of practice.

Trial Pits

It is to be noted that visual examination of the soil exposed in suitably located trial pits at the site, combined with already established data for different types of soil is commonly used for deciding on the safe bearing capacity. While this procedure may be adequate for light or less important structures under normal conditions, relevant laboratory tests or field tests are essentially to be carried in the case of unusual soil types and for all heavy and important structures.

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All investigations should be done with the directions of APUIAML

Survey Type	Trail Pits Survey
Location	Andhra Pradesh
Proposed Scope	As under
Deliverables	Submission of Soil Strata Investigation Report
Proposed Payment Terms	 Estimate quantity will be given at the time of survey. Agency shall quote as per format given in annexure. Since the quantity (number of locations) is more, the work may be entrusted to survey agency in different lots and Payments also shall be based on 'Lot' basis. A 'Lot' is a collection of locations that have to be surveyed together at a time. APUIAML shall finalize 'Lots' considering priority of projects. The following terms for payments are for each 'Lot'. 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.

APUIAML shall facilitate in obtaining any permissions if required.

Proposed Scope

The survey agency shall carryout the flowing tasks:

- a. Trial pit and classification of soil by visual inspection and index properties to verify the soil type for layin the pipe line at various depths @ various depths of 2.5m, 4m and 6m. Agency has to define the soil type various depths i.e., soft soils, soft rock, hard rock etc. The soil stability, workers safety etc. need to be taken care by the agency.
- b. In order to ascertain the sub-soil classification and bearing capacities, subsoil investigation is carried out by taking trial pits/ trial bores at various depths at regular intervals along the proposed alignment. Details of Trial pits are submitted separately showing the Northing and Easting coordinates of pit, soil type at various depths, depth of ground water etc.

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ANNEXURE 03

KEY TOR FOR CONDUCT OF TRAFFIC & TRANSPORT RELATED SURVEYS

Survey Type	Classified Volume Count (CVC)
Location	Andhra Pradesh
Proposed Scope	Duration: These surveys shall be conducted at the points identified for one day/s for 16 hrs duration on a week day. Surveying: Counting of vehicles classified by the type of vehicle during the specified duration. At each identified point, both directional counts will be carried out by vehicle type. i.e. cars, jeeps, vans, buses, trucks, Multi-Axle Vehicles (MAVs), Light Carrier Vehicles (LCVs), tractors, motorized two wheelers, slow-moving vehicles etc.
Deliverables	 Survey data duly filled in format (as mutually finalised) in MS Excel format Filled in survey formats (hard copies) Timestamped site photographs form site while surveying
Proposed Payment Terms	 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.
APUIAML shall	facilitate in obtaining any permissions if required.

Survey Type	Turning Movement Count (CVC)
Location	Andhra Pradesh
Proposed Scope	Duration : These surveys shall be conducted at the points identified for one day/s for 16 hrs duration on a week day.
	Surveying : Counting of vehicles covering all turning movements classified by the type of vehicle (i.e. cars, jeeps, vans, buses, trucks, Multi-Axle Vehicles (MAVs), Light Carrier Vehicles (LCVs), tractors, motorized two wheelers, slow-moving vehicles etc.) during the specified duration at each identified point.

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Deliverables	Survey data duly filled in format (as mutually finalised) in MS
	Excel format
	 Filled in survey formats (hard copies)
	Timestamped site photographs form site while surveying
Proposed	 50% payment upon completion of survey on ground
Payment	 50% payment upon acceptance of Deliverables
Terms	• Initial payment shall be made based on the estimated quantity given
	at the time of survey for each project separately. The final payment
	shall be paid on based on the actual surveyed quantities and shall be
	adjusted according w.r.t initial payment.

APUIAML shall facilitate in obtaining any permissions if required.

Survey Type	Parking Number Plate Surveys (On street & Off-street)
Location	Andhra Pradesh
Proposed Scope	Duration : These surveys shall be conducted at the points identified for one day/s for 16 hrs duration on a week day.
	Surveying : On/off street parking surveys will be carried out at identified locations. Enumerators are to note the vehicle type and registration number of parked vehicles every 1/4 hour. Information will also be collected on associated parking fees (if any).
Deliverables	 Survey data duly filled in format (as mutually finalised) in MS Excel format Filled in survey formats (hard copies) Timestamped site photographs form site while surveying Peak Parking Demand Period by Location Parking Demand by Vehicle Type Parking Duration Information
Proposed Payment Terms	 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.

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Survey Type	Road Inventory
Location	Andhra Pradesh
Proposed Scope (Indicative)	Surveying : For the identified road stretches, a full-scale inventory surveys shall be undertaken to create a road network database. Inventories of the following facilities shall be undertaken as part of the task:
	 Road Network Section length Effective Road width Median width and type Quality of riding surface Adjoining Land use and available access control Intersection Facilities Pedestrian Facilities Parking Facilities Traffic Control Measures Details about encroachments Road markings and Signage Street Lighting/ Street Furniture PT/IPT passenger collection points Presence natural and manmade features
Deliverables	 Survey data duly filled in format (as mutually finalised) in MS Excel format Filled in survey formats (hard copies) Timestamped site photographs form site while surveying Condition Survey Strip Map as suggested by APUIAML
Proposed Payment Terms	 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.

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ANNEXURE 04

PROPOSED KEY TOR FOR CONDUCT OF DRONE SURVEY

Survey Type	Drone Survey
Location	Andhra Pradesh
Proposed Scope	As under
Deliverables	 The soft copies of following data in standard formats with reference to DGPS points DSM DTM DEM Contour Levels Quantity of calculations in excel, if any. Ortho Imagery Videography data of survey acres. Soft copy GIS bas map capturing various layers as given in the scope
Proposed Payment Terms	 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.

Proposed Scope

The survey agency shall carry the following tasks

- a. Drone based survey / flying aided with GCP of marked with DGPS (for collecting Ground Control Points) instrument,
- b. Post Processing of data
- c. Development of Ortho images, DSM, DTM, DEM, Contour Levels etc.
- d. Preparation of GIS Base map with all different physical layers Viz. poles, electrical, telephone, footpath, right of way, carriage way, road center line, vegetation, water bodies, canals, elevations, DGPS points, boundary etc.

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ANNEXURE 05

KEY TOR FOR SWM RELATED SURVYES - CONDUCT OF PHYSICAL & CHEMICAL **CHARECTERIZATION FOR MSW**

Survey Type	Physical & Chemical Characterization of MSW
Location	Andhra Pradesh
Proposed Scope	 Physical Characterization – Lab report of physical characterization for waste types such as Organics, Combustible, Recyclable, Inert and other types of waste. Chemical Characterization – Lab report of chemical characterization for waste parameters such as Moisture content, Calorific value, pH, Bulk density, Organic carbon, Nitrogen, Phosphate, C/N ratio, Conductivity, COD etc.
Deliverables	 Lab report for Physical Characterization of MSW sample Lab report (nationally accredited) for Chemical Characterization MSW samples
Proposed Payment Terms	 50% payment upon completion of survey on ground 50% payment upon acceptance of Deliverables Initial payment shall be made based on the estimated quantity given at the time of survey for each project separately. The final payment shall be paid on based on the actual surveyed quantities and shall be adjusted according w.r.t initial payment.
APUIAML shall	facilitate in obtaining any permissions if required.

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ANNEXURE 06

GENERAL TOR FOR ALL SURVEYS (as applicable)

1. General Instructions

- a) All survey work locations shall be identified and data collection shall be carried out by the survey agency in the prescribed format agreed with APUIAML.
- b) The Calibration Certificate for the instruments used shall be submitted to APUIAML
- c) All survey data sheets shall be provided to APUIAML upon completion of survey.
- d) All survey data needs to be entered by the survey agency in the format agreed with APUIAML.
- e) APUIAML representatives visiting the site shall be extended full cooperation and they shall be explained about methodology adopted and shall be appraised about the measures adopted for accuracy of work.
- f) The schedule of surveys should be approved by APUIAML before commencement of survey.
- g) The quoted rates shall be inclusive of the cost of labour, materials, equipment, transport, water, punching of data in prescribed format, and reports etc. and no other charges whatsoever shall be entertained in any circumstances.
- h) The number of survey locations is subject to change at the time of issue of work order.
- i) The survey agency at his cost shall ensure all safety measures and APUIAML shall hold no responsibilities in this regard.
- j) Before changing location of survey or completing of survey, APUIAML Project Manager shall be informed.

2. Deliverables

- a) Survey data shall be submitted by the survey agency in the agreed format in agreed software.
- b) All field survey sheets, observations, drawings and other documents containing field data gathered during survey shall be handed over to the client and survey agency shall have no claim or use whatsoever. The survey agency shall not reproduce any data collected from the work in any form.
- c) Survey Data Analysis Report shall be submitted by the survey agency in the agreed format
- d) The soft copy of the drawings, database and report in Word /Excel /PPT/Dwg/PDF /shape/Dbx. Etc. format needs to be submitted at each stage along with the above.
- e) The format for submission of the data and report shall be discussed and agreed with the client and the reports shall be in submitted in the format agreed upon.

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f) No other payment shall be made towards out-of-pocket expenses.

3. Effecting Payment to the Survey agency

- a) The payment due to the survey agency for various milestones shall be paid once APUIAML approves all the deliverables for respective milestones.
- b) If services of survey agency are required for any work, not covered under this assignment, the scope and payment for the same shall be decided on mutually acceptable terms.

4. Deduction

All payments to the survey agency under the terms of engagement are subject to tax deduction at source under Income Tax Act and any other enactment that may be in force from time to time. The client will also be entitled to deduct from the payment due to any dues payable by the survey agency to the client. The client shall provide to you within prescribed time limit the appropriate tax deduction certificate evidencing payment of such taxes.

5. Execution of the Assignment

The survey agency shall keep the client informed about the progress of work.

6. Ownership of Copyright

Any deliverable prepared as part of this assignment shall be the intellectual property of the APUIAML. The drawings, specifications, documents and reports, survey formats, filled data sheets etc prepared as instruments of service shall be the property of APUIAML whether the project, for which they are made, is executed or not. APUIAML shall retain copies of the survey agency's drawings, specifications and other documents for information and use in connection with the projects.

7. Arbitration

All disputes or difference which may arise between APUIAML and the Survey agency with regard to the meaning or interpretation or things done in pursuance of executed workorder, such disputes and difference shall be resolved mutually and if required and called for the same shall be referred for arbitration, which shall be conducted as per the provisions of the Arbitration and Conciliation Act 1996. Any dispute submitted to arbitration shall be considered by a mutually acceptable sole arbitrator. In case the Parties are unable to agree & decide on a sole arbitrator, then the dispute shall be considered by three arbitrators one to be appointed by APUIAML and one to be appointed by Survey agency and the third arbitrator to be appointed jointly by the arbitrators of the Client and the Survey agency. Each Party shall bear their respective cost to be incurred on the arbitration proceedings.

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The decision and award of the arbitrator shall be final and binding on the Survey agency and the Client. Place of arbitration shall be Vijayawada, Andhra Pradesh

8. Indemnity

In case of any dispute, controversy, litigation, public agitation etc. connected with the with the services rendered/ being rendered by Survey agency or arising out of any matter connected with or incidental to the services provided/ or being provided by Survey agency or for any other reason, the Survey agency shall indemnify and keep indemnified and hold APUIAML, its employees, authorized representatives, agents harmless from and against all costs, claims, damages, proceedings, liability, including fees paid to legal counsels etc. in this behalf.

9. Confidentiality

Survey agency shall not disclose to anyone either during carrying out the services or within two years after completion of this assignment, any confidential or proprietary information relating to the Project or the APUIAML's business affairs or operations without the prior written consent of APUIAML.

10. General

APUIAML may make such rules and/ or lay out such procedures as may be deemed necessary for the implementation/ administration of the terms and conditions of your employment as stated in this work order with due intimation to you and the same will be binding on you.

11. Selection Process

The survey quotation has to be submitted on or before the submission date as mentioned in the TOR. The quotations will be evaluated and the L1 price bidder will be announced and shortlisted. In the reverse bidding process, the other bidders will be called upon for negotiation to work on L1 rates. All bidders who would be able to deliver at the L1 price after negotiation will be shortlisted and empaneled.

This bid invitation is for quotations on unit rate basis and the area of service is mostly in Andhra Pradesh for APUIAML. Based on the project to project, APUIAML will issue letters separately for different projects and payment will be based on the actual survey done. First preference will always be given for the L1 bidder and it is prerogative of APUIAML to share the workload based on the capacity of the survey agency, time required, urgency of work and various other parameters.

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ANNEXURE 07

FORMATS FOR SUBMISSION OF QUOTES

SURVEY QUOTE					
#	Survey Type	Unit	Unit Cost (in INR Rs)		
1	ТОРО				
	Drains	Km			
	Canals	Km			
	Lakes	Acres			
	Roads	km			
	Open Areas	Acres			
2	TRAFFIC & TRANSPORT RELATED				
2.1	CVC	No.			
2.2	TMC	No.			
2.3	Road Inventory	Km.			
2.4	Parking	No.			
3	DRONE				
3.1	Drone survey along with GIS mapping	Sq.Km			
3.2	Drone linear survey along with GIS mapping	Km			
3.3	DGPS survey	Nos			
4	MSW RELATED				
4.1	Physical Characterization of Waste	No.			
4.2	Chemical Characterization of Waste	No.			
5	GEOTECH				
5.1	Mobilization of Hydraulic drilling rig with all accessories like drill rods, casing pipes, S.P.T. equipment etc., which are required for boring and sample collection.	Each Rig			
5.2	Shifting of equipment from one location to another location per 'Lot'	Each			
5.3	Drilling of bore holes upto 15m depth of 100-150mm/10 diameter Boring in all types of:				
	Soil	Per RMT			
	Soft Rock or Gravel (SDR)	Per RMT			
	Hard Rock	Per RMT			

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5.4	Carrying out standard penetration test (SPT) as per IS: 2131-1963, at site at every 1 ½ m depth up to the refusal.	Each	
5.5	Conducting laboratory analysis with Applicable tests on the collected samples a) Grain size analysis b) Atterberg Limits, N.M.C & Density c) Specific gravity d) Direct shear test	LS	
5.6	Trial Pits (1m X 1m X 2m)	2 m 4 m 6 m	

NOTE:

- 1. Agencies are to submit quotes for one or more survey types suiting their candidature and competencies and mark other fields as 'NA'.
- 2. In order for the quote to be considered for evaluation, for a particular survey type, the agency is to quote for all sub-surveys/items within it. For ex. an agency quoting for survey type "Topo" should quote for all sub items/surveys i.e., drains, lakes, canals & roads, failing which the quote for that particular 'survey type' will not be considered for evaluation.
- 3. The quotes provided shall be exclusive of applicable taxes
- 4. The quotes should be submitted on agencies' letterhead duly signed by the competent authority and shall have the following contact information: (i) Contact Person Name (ii) Contact Mobile No (iii) Contact email ID (iv) Contact Address
- 5. It is to be noted that separate Work Orders shall be given for each survey type. Therefore, APUIMAL as per its procurement policy/discretion may choose different survey agencies for each survey type.