



Protech Infosystems Private Limited

Form – 4 : Pre – Bid Queries
Expression of Interest For Empanelment of Vendors For Remote Sensing, GIS and GPS Application Design, Development, Development & Deployment

Ref. No. : ASSAC/EMPANELMENT OF VENDORS/41/2022-23

dated 14/05/2022

Annexure: III

| Sr. No. | Page No. of the Tender Document | Clause | Queries | Clarification by ASSAC |
|----------------|--|---------------|--|---|
| 1. | 8 | 2.16.2 | Whether MSME Registered Organization will get exemption form submission of Tender Document Fees of Rs. 5,000/- | Tender document fee and EMD (as applicable after offer of Work order) are exempted for concerned Firms having MSME, NSIC and SSI, Assam Registration, subject to submission of valid documents as on date. If concerned Vendor has no Registration as above they may deposit the required amount either through e-transaction or may submit DD, in favour of the Director ASSAC. DD may be from any Nationalised scheduled Banks. |

Date : 30/05/2022

INFOSYSTEMS PRIVATE LIMITED

SIGNED FOR AND ON BEHALF OF Place: Kolkata

PROTECH



Authorized Signatory(Arup Chakraborty)
Director

 : + 91 9830034386 / 9088106265
Email : arupc@ptinfosys.com

Regd. Office: 11/A, K. G. Bose Sarani, Kolkata – 700 085. Tel: +91 9830010867
Corporate Office: Plot No. DH - 6/45, Premises No. 07-0313, AA-1, New Town, Kolkata - 700156, Tel: +91 9830034386 / 9030510867

To,
 Director,
 Assam State Space Application Centre Bigyan Bhawan,
 G.S.Road, Guwahati-5

Date : 01 June 2022

ANNEXURE: VI

File Reference: Hake/Eol/02/2022

EXPRESSION OF INTEREST FOR EMPANELMENT OF VENDORS FOR REMOTE SENSING, GIS AND GPS APPLICATION, DESIGN, DEVELOPMENT & DEPLOYMENT

Dear Sir,

1. Please refer to your Tender No.: ASSAC/EMPANELMENT OF VENDORS/ 41/2022-23.
2. Pre-bid queries are as follows: -

| <u>Sr. No</u> | <u>Page No of the Tender Document</u> | <u>Clause</u> | <u>Query</u> | <u>Clarification by ASSAC</u> |
|----------------------|--|---|---|--|
| 1. | Page No 9 & 10, Para No 3.2 | <u>Bidder's Profile:</u> The bidder shall have an average annual turnover of at least Rs. 50 Lakhs over the past three financial years of its existence, obtained through GIS software development. (The turnover of best three years must be submitted out of last five years [2021-22, 2020-21, 2019-20, 2018-19, & 2017-18]) | There are no provisions for Start-up organizations. For wider participation and proficiency, newly registered Start-up companies (less than one year), maybe permitted and given a chance with the relaxation of average turnover be reduced up to Rs 15 lakhs for the past one year. | Annual Average Turnover is modified based on consensus and fixed at Rs.15.00 lakhs. |
| 2. | Page No 9 & 10, Para No 3.2 | <u>Relevant Experience:</u> The bidder should be operating in the field of GIS software development, providing GIS software solutions for a minimum last three years and must have completed minimum 3 assignments of GIS websites/portals/ application development for Private/Central Govt./PSU/State Govt. with a value of at least Rs. 7-10 Lakhs Each, in previous best of three years. | <u>For newly registered Start-up companies,</u> relaxation of a minimum of one assignment (Project) on GIS websites/portals/ application development for Private/Central Govt./PSU/State Govt. with a value of at least Rs. 15 Lakhs each in the previous year be permitted. | In order to promote start ups, firm order / execution of at-least two project in the previous three years. |

Thanking you, Yours faithfully,



(Aparesh Patra)

Dr Aparesh Patra (PhD), Founder & CEO, Hake Technologies
 Mobile: +91-9999 279 500 | Email: aparesh.patra@haketech.com | apareshpatra@gmail.com
www.linkedin.com/in/apareshpatra

FORM- 4: Pre-Bid Queries**(REMOTE SENSING INSTRUMENTS (HYDERABAD))****ANNEXURE:IV**

| Sr. No | Page No. of the Tender document | Clause | Queries | Clarification by ASSAC |
|---------------|--|-------------------------------------|--|--|
| 1 | 8 | 2.17 | We Understand that from EOI. All the Bid documents should be submitted through Offline (i.e Hard copy) there is no online submission. Kindly Clarify | Bid Documents to be submitted in original in Hard copy in sealed envelope. The Same may be sent by speed post/ courier. The same document to be submitted online which will be made public after scheduled day of opening of Bid Document. |
| 2 | 24 | Annexure -III (Bank Guarantee Form) | Do we need to submit Bank Guarantee for the sum of Rs 1,00,000 along with Tender Document? Kindly Clarify | Submission of Bank Guarantee is not applicable at this stage of empanelment. |

Date : 03/06/2022 Place : Hyderabad



Name and Title of Signatory : Mr. B.V. Ramana Kumar (Chief Executive Officer) Name of Firm : M/s. Remote Sensing Instruments

Address : Plot No.7, Type-I. I.E. Kukatpally, Hyderabad – 500 072

| EOI for Empanelment of Vendors for Remote Sensing, GIS and GPS Application, Design, Development & Deployment | | | | |
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| s | Page No. | Clause | Queries | Clarification From ASSAC |
| 1 | 6 | ITB Clause 2 sub clause 2.5 Consortium & Joint venture is allowed. | All Pre-Qualification Criteria should follow Lead Partner only | YES in addition expertise of partner institute to be highlighted and reason for consortium |
| 2 | 9-10 & 26 | Pre-qualification Criteria and Check list | Both are different for Relevant Experience and Turnover criteria, please clarify | Relevant experience includes Remote Sensing Application, GIS, GPS and scope of work defined in Clause 2.3. Turn over criteria is modified based on consensus of pre-bid to Rs.15.00 lakh instead of Rs.50.00 lakh and further amendment is made in EOI document. |
| 3 | 10 & 26 | Bidder has an operational dedicated software development centre in india (as per Pre-qualification Criteria and Check list) | What does it mean for? | If concerned vendor is willing for empanelment for s/w related development then CMMI L3 will be necessary and bidder should be registered under companies act as mentioned in check list. |
| 4 | 23 | Annexure - II Sr. No. 3 Contract/Work/Engagement orders, indicating the details of assignment, client, value of assignment, date of award, satisfactory job completion certificate etc. for 5 such projects in last 3 years | Request for RS & GIS Projects should be in last 5-7 years | As per Pre-Qualification Criteria Page No. 10 The bidder should be operating in the field of GIS software development, providing GIS software solutions for a minimum last three years and must have completed minimum 3 assignments of GIS websites/portals/ application development for Private/Central Govt./PSU/State Govt. with a value of at least Rs. 7-10 Lakhs Each, in previous best of three years. As per Checklist Page No. 26 The bidder should be operating in the field of Remote Sensing , DGPS, Drone survey & processing, GIS software development provided GIS software solutions for a minimum of last three years and must have completed minimum 3 assignments of GIS websites/portals/ application development for Private/Central Govt./PSU/State Government with a value of at least Rs. 5 Lakhs each, in previous three years. |
| 5 | 18 | Form-3 Relevant Experience | three software development projects each of value more than Rs. ____not mentioned | Relevant experience as per scope of work defined in clause. For empanelment in s/w sector the 3 projects are desirable experience for development. |
| 6 | 15 | Form-2 (A) Bidder Profile Total Turnover from software development projects/activities for F.Y. 2021-22, 2020-21 & 2019-20 | Balance sheet for F.Y. 2021-22 is not audited yet. | It's agreed and balance sheet of FY 2021-22 not necessary |
| 7 | 25 | Basic item of work | Basic item of work mostly related to Remote Sensing & GIS work but technical professional for Resource Category from sl. no. 2 to 6 are related to software development | True, Based on defined scope of work the qualification pertaining to Remote sensing and GIS is mandatory by default. |

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| 8 | 16-17 | Resource Category from sl. no. 2 to 6 | Prescribed qualification are same for all | | | Since it's valid for defined scope of work. Additional expertise and qualification will have added advantage |
| 9 | 16-17 | Technical Professional for each Resource Category for sl. no. 1 to 7 | Required Numbers are not mentioned | | | Mention in Form 2(B) and strength to be revealed by concerned. Moreover in addition to this as per resolution of the of the pre-bid meeting the manpower strength for each vertical to be mentioned along with number of projects in particular sector |
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ANNEXURE:V(A)

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SCIENCE

105/1 Vijay Colony
New Cantt. Road
Dehradun, Uttarakhand 248 001
Phone: +91 98373 15102, 0135 – 274 2024



SCIENCE: L- 2021-22/June, 22/001

Dated: 04-06-2022

Pre-Bid Queries

To,
The Director
Assam State Space Application Centre
Department of Science, Technology and Climate Change,
Govt. of Assam, Bigyan Bhawan, Near ABC Point,
G.S. Road, Guwahati – 781 005, Assam, India

Ref. EOI for Empanelment of Vendors for Remote Sensing, GIS and GPS Application, Design, Development & Deployment

| S. No. | Page No. | Clause | Queries | Clarification from ASSAC |
|--------|-----------|---|--|--|
| 1 | 6 | ITB Clause 2 sub clause 2.5 Consortium & Joint venture is allowed. | Number of JV partners allowed is not mentioned. | It's open and up to the bidder |
| 2 | 9-10 & 26 | Pre-qualification Criteria and Check list | Relevant Experience and Turnover criteria are differently mentioned in both the pages, please clarify | Modified and amended .It's Rs.15.00 lakh |
| 3 | 23 | Annexure - II Sr. No. 3 Contract/Work/Engagement orders, indicating the details of assignment, client, value of assignment, date of award, satisfactory job completion certificate etc. for 5 such projects in last 3 years | | In order to promote start ups, firm order / execution of at-least two project in the previous three years. |
| | 10 | As per Pre-Qualification Criteria - Relevant Experience The bidder should be operating in the field of GIS software development, providing GIS software solutions for a minimum last three years and must have completed minimum 3 assignments of GIS websites/portals/ application development for Private/Central Govt./PSU/State Govt. with a value of at least Rs. 7-10 Lakhs Each, in previous best of three years. | It is requested that required experience should be from Remote Sensing & GIS, GIS software development in last five years | if applied for s/w development related empanelment 3 assignment is desirable. Yes, agreed |
| | 26 | As per Checklist Sr. No. 2 The bidder should be operating in the field of Remote Sensing, DGPS, Drone survey & processing, GIS software development provided GIS software solutions for a minimum of last three years and must have completed minimum 3 assignments of GIS websites/ portals/ application development for Private/ Central Govt./PSU/State Government with a value of at least Rs. 5 Lakhs each, in previous three years. | | Modified that at least two projects in last 3 years. Annual average Turn over is Rs.15.00 lakhs |
| 5 | 18 | Form-3 Relevant Experience | three software development projects each of value more than Rs. _____ not mentioned | 3 projects in s/w development desirable for empanelment for development of s/w etc. |
| 6 | 15 | Form-2 (A) Bidder Profile Total Turnover from software development projects/activities for | Firstly, Turnover is required particular from software development projects/activities. It is requested to change it from RS & GIS and GIS | FY 2021-22 not required to be submitted. |

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| | | F.Y. 2021-22, 2020-21 & 2019-20 | software development. Secondly Balance sheet for F.Y. 2021-22 is not audited yet. Please confirm | |
| 7 | 16 | Form 2 (B) Bidder Profile - Human Resource Competence | As the Scope of Work at page no. 25 (Basic Item of Work) is mostly related to Remote Sensing & GIS work, although Professional Professional Technical Resource Category from Sl. No. 2 to 6 are required related software Development | Basic item of work the manpower by default is mandatory in the field of application of Remote Sensing and GIS |

For SCIENCE

Prabir De
SCIENCE
 105/1, VIJAYCOLONY,
 DEHRADUN-248 001
 UTTARAKHAND
 Prabir De
 (Project Co-ordinator)

Website: www.sciencepariwar.com

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ANNEXURE-V (B)

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FORM- 4: Pre-Bid Queries

ANNEXURE_VII

| Sr. No. | Page No. of the Tender document | Clause | Queries | Clarification by ASSAC |
|---------|---------------------------------|--|---|--|
| 1 | 1 | <p>Cost of the Tender Money (Non Refundable): Rs.5,000/- (one time): Interested bidder has to submit a Demand Draft of Rs. 5000/- (Rupees five thousand only) in favour of Director, ASSAC payable at Guwahati and to be submitted along with the bid document on or before June 15, 2022 or may be e transferred enclosing the transferred reference particulars Detail of ASSAC Bank Account as follows: Assam State Space Application Centre S.B. Account No. 40759020516. IFSC Code: SBIN 0007700, SBI GMC Br.</p> | <p>We would like to bring it in your kind consideration that our Firm / Company are an organization registered with National Small-Scale Industries Corporation Limited (NSIC) under single point registration scheme, Ref no: NSIC/KOL/GP/RS/REGN/WB/C-419/12 valid from 8/8/2010 to 7/8/2022.</p> <p>The unit registered under Single Point Registration Scheme of NSIC are eligible to get benefits under Public Procurement Policy for Micro & Small Enterprises (MSEs) order 2012 as notified by the Government of India, Ministry of Micro Small & Medium Enterprises, New Delhi vide Gazette Notification dated 23.03.2012:</p> <ul style="list-style-type: none"> • Issue of the Tender Sets free of Cost • Exemption from payment of Earnest Money Deposit <p>Could be please be kind enough to consider the above clause for this tender.</p> | <p>Tender document fee and EMD (as applicable after offer of Work order) are exempted for concerned Firms having MSME, NSIC and SSI, Assam Registration, subject to submission of valid documents as on date. If concerned Vendor has no Registration as above they may deposit the required amount either through e-transaction or may submit DD, in favour of the Director ASSAC. DD may be from any Nationalised & scheduled Banks.</p> |
| 2 | 2 | <p>Demand Draft of Rs. 5,000/- (non-refundable) drawn in favour of Director, ASSAC payable at Guwahati.</p> | <p>Could be please be kind enough to consider the above clause for this tender.</p> | |

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| 3 | 10 | The bidder shall have an average annual turnover of at least Rs. 50 Lakhs over the past three financial years of its existence, obtained through GIS software development. (The turnover of best three years must be submitted out of last five years [2021-22, 2020-21, 2019-20, 2018-19, & 2017-18]) | We would request you to kindly modify this with "The turnover of best three years must be submitted out of last five years [2020-21, 2019-20, 2018-19, 2017-18 & 2016-17]" Just 2 months ago FY 2021-2 finished & in that scenario it is not possible to produce balance sheet of FY 2021-22. | Annual Turnover may be submitted for 2020-21, 2019-20, 2018-19 and 2017-18 i.e. for 4 years instead of 5 years. Moreover Average Annual turn over is reduced from Rs.50.00 lakh to Rs.15.00 lakhs. |
| | 10 | The bidder should be operating in the field of GIS software development, providing GIS software solutions for a minimum last three years and must have completed minimum 3 assignments of GIS websites/portals/application development for Private /Central Govt./PSU/State Govt. with a value of at least Rs. 7-10 Lakhs Each, in previous best of three years. | We would request you to kindly remove "work order from Private". | Since Private companies also required necessary services in this sector with valid example by concerned vendor this experience is acceptable. But in addition to private the concerned vendor should have the credentials w.r.t assignment carried out for PSU or Government |
| 4 | | Quality Certification | In this EOI document nothing mentioned about Quality Certification. We are suggesting please include some certification in eligibility e.g. ISO 9001:2015, ISO 27001:2013, ISACA CMMI Level 3 or above. | ISO certification for services are desirable. The committee will decide after screening the bid documents of the vendors. For Security related issue Standard as per clause 2.3.3 will be valid. For software development etc. issue CMMAI L3 will be necessary. |

FORM- 4: Pre-Bid Queries

Annexure : II

| Sr. No. | Page No. of the Tender document | Clause | Queries | Clarification by ASSAC |
|---------|---------------------------------|---|--|---|
| 1 | Page No. 1 | Cost of the Tender Money (Non Refundable): Rs.5,000/- (one time): Interested bidder has to submit a Demand Draft of Rs. 5000/- (Rupees five thousand only) in favor of Director, ASSAC payable at Guwahati and | The demand draft needs to be furnished from a nationalized bank or any private bank would be allowable. Please confirm on the same. | Tender document fee and EMD (as applicable after offer of Work order) are exempted for concerned Firms having MSME, NSIC and SSI, Assam Registration, subject to submission of valid documents as on date. If concerned Vendor has no Registration as above they may deposit the required amount either through e-transaction or may submit DD, in favour of the Director ASSAC. DD may be from any Nationalised scheduled Banks. |
| 2 | Page No. 3 | Last date for submission of bids physical in a sealed envelope in the office of ASSAC, Guwahati. | Is it mandatory for bidders to submit the sealed bid physically or a bidder can submit the same by courier/speed post? Please confirm on the same | Bid Documents to be submitted in original in Hard copy in sealed envelope. The same may be sent by speed post/ courier. The same document to be submitted online which will be made public after scheduled day of opening of Bid Document. |
| 3 | Page No. 10 | The bidder shall have an average annual turnover of at least Rs. 50 Lakhs over the past three financial years of its existence, obtained through GIS software development. (The turnover of best three years must be submitted out of last five years [2021-22, 2020-21, 2019-20 , 2018-19, & 2017-18]) | AABSyS requests to consider the annual turnover achieved from GIS, Remote Sensing, Software Development etc for last 5 years as the Empanelment of Vendors is for Remote Sensing, GIS And GPS Application, Design, Development & Deployment. | Annual Turnover may be submitted for 2020-21, 2019-20, 2018-19 and 2017-18 i.e. for 4 years instead of 5 years. Annual Average Turnover is modified based on consensus and fixed at Rs.15.00 lakhs |

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| 4 | Page No. 10 | <p>Relevant Experience: The bidder should be operating in the field of GIS software development, providing GIS software solutions for a minimum last three years and must have completed minimum 3 assignments of GIS websites/portals/ application development for Private/Central Govt./PSU/State Govt. with a value of at least Rs. 7-10 Lakhs</p> | <p>AABSYS would request ASSAC to kindly consider projects related to GIS, Remote Sensing, and software development etc for last 3 years as the Empanelment of Vendors is for Remote Sensing, GIS And GPS Application, Design, and Development & Deployment.</p> | <p>i) Experience of basically consider projects related to GIS, Remote Sensing, GPS and services in this sector it is mandatory. ii) For empanelment for development of any software category bidder should be operating in the field of GIS software development, providing GIS software solutions/ customization for for minimum 3 years period.</p> |
| 5 | Page No. 10 | <p>Supporting Document to be furnished: Copy of Work Orders, Completion report & the customer satisfaction certificate should be attached.</p> | <p>AABSYS would request ASSAC to kindly consider ongoing projects as the projects are of long-term nature. Hence requesting ASSAC to kindly modify the clause as: "Copy of Work Orders, Completion report/customer satisfaction Certificate should be attached."</p> | <p>For long term projects the concerned vendor should submit the satisfactory work report of ongoing program from concerned client.</p> |
| 6 | Page No. 15 | <p>FORM-2 (A): BIDDER PROFILE – Financial Competence, Point (d) Total Turnover/revenue (net of taxes and duties) from software development projects/activities</p> | <p>AABSYS would request ASSAC to kindly modify the clause as "Total Turnover/revenue (net of taxes and duties) from GIS/ Remote Sensing/software</p> | <p>Total turn over pertaining to application of remote sensing, GIS, GPS and software development.</p> |

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| | | | development projects/activities” as the empanelment of Vendors is for Remote Sensing, GIS and GPS Application, Design, Development & Deployment. | |
| 7 | Page No. 18 | FORM- 3: RELEVANT EXPERIENCE - Professional/Practical competence a) Please specify three software development projects each of value more than Rs developed in-house and successfully completed during dd/mm/yyyy to dd/mm/yyyy | AABSYS would request ASSAC to kindly consider projects related to GIS, Remote Sensing etc as relevant experience as the Empanelment of Vendors is for Remote Sensing, GIS And GPS Application, Design, Development & Deployment. | projects related to GIS, Remote Sensing etc. are the pre requisite relevant experience for the Empanelment of Vendors for Application of Remote Sensing GIS And GPS Application related services. For customized s/w specific development evidence for development of customized s/w are essential. |
| 8 | Page No. 23 | RELEVANT EXPERIENCE - Professional/Practical Competence (as perForm-3) (a) Contract/Work/Engagement orders, indicating the details of assignment, client, value of assignment, date of award, satisfactory job completion certificate etc. for 5 such projects in last 3 years | We are hereby requesting to kindly consider ongoing projects as the as the projects are of long-term nature and we are assuming that the 5 such projects in last 3 years would be either from GIS, Remote Sensing, Software development etc. Kindly confirm. | Ongoing projects may be considered subject to satisfactory work report of the client and submission of percentage work completed. |



Date: 02.06.2022

Authorized Signature [In full and initials]:

Pritam Brahma (P.B.)

Place: Bhubaneswar

Name and Title of Signatory:

Pritam Brahma

Manager – Business Development

Seal:



for

Empanelment of VENDORS for Remote Sensing, GIS and GPS Application, DESIGN, DEVELOPMENT & DEPLOYMENT

Assam State Space Application Centre (ASSAC)

| S. No. | Page No. of the Tender document | Clause | Queries | Clarification by ASSAC |
|--------|---------------------------------|---|--|--|
| 1. | Page No. 4 | <p>2. INSTRUCTION TO BIDDERS 2.1 Introduction of ASSAC "In view of this, the Government of Assam has notified then ARSAC as a "Nodal Agency for Remote Sensing, GIS an GPS related activities and services including procurement of satellite data vide Assam Govt. Notification No.STE/86/2016/93 dated 23rd March,2018."</p> <p>2.3 Scope of work · Mapping of natural resources (agriculture / forest / water resources)</p> | We assume that ASSAC will provide satellite imagery and ground information required for natural resources mapping to the bidder. | <p>In general satellite data for any projects will be procured by ASSAC and will be shared with concerned selected vendor as per Remote Sensing data policy and subject to submission of Non Disclosure Agreement (NDA). Ground truthing by ASSAC will be for Quality checking purpose during execution of the project. Subject to necessity based on type of projects selected vendors will have to carry out Ground Truthing / data collection / geotagging etc.</p> |

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| 3. | Page No. 4 | <p>2.2 Purpose</p> <p>ASSAC is intending to empanel qualified incorporation who is in the business of GIS-based Software Development for its GIS initiative of serving various departments in Assam using open GIS or ESRI platform</p> | <p>1. Bidding should be fairly open to all the bidder instead of giving preference to specific OEM.</p> <p>2. As per the Govt. of India's program "Make in India, Made in India, & Local for Vocal", the preference should be given to indigenous products and local manufacturers that has all the specification as required or mentioned in EOI.</p> | <p>Question of OEM is not a matter of concern at this stage. Specific OEM subject to availability of relevant s/w at ASSAC was mentioned for compliance of outputs to be delivered m Open source terminology is also mentioned in the documents.</p> |
| 4. | Page No. 4 | <p>2.3 Scope of work</p> <p>Utility mapping (water supply/ telecommunication / electricity etc.)</p> | <p>We assume that all the utility layers like water supply, electricity etc. will be provided by department in GIS standard format.</p> | <p>If concerned department (i.e. the authority for the same) share the relevant data then the same will be shared depending on scope of work. If it's a survey related work then field survey to be carried out as per necessity.</p> |
| 5. | Page No. 5 | <p>2.3 Scope of work</p> <p>2.3.1 Data Integration</p> <ul style="list-style-type: none"> Integration of data in various formats, including text, shapefile, json, geojson, xml, csv, pdf (as and when applicable) | <p>According to our understanding pre-existing GIS-standard format and other related data will be provided by concerned departments. Please confirm.</p> | <p>Yes, it will depend on type of work to be executed. Format should be OGC compliant.</p> |

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| 6. | Page No. 5 | <p>2.3 Scope of work</p> <p>Smart city / Urban / rural plan preparations and services, i.e., taxation / site suitability analysis.</p> | <p>We assume that the department has existing property taxation system; the bidder will have to integrate with GIS system.</p> | <p>It will depend on type of work to be executed and which will be based on MOU between concerned Departments and ASSAC.</p> |
| 7. | Page No. 4 and Page No. 25 | <p>2. INSTRUCTION TO BIDDERS</p> <p>2.1 Introduction of ASSAC</p> <p>"ASSAC has a repository of geospatial databases comprising village/city cadastral database administrative boundaries and a wealth of natural resources databases generated using satellite Remote Sensing and GIS technology at various scale."</p> <p>ANNEXURE IV – Basic Item of Work</p> <p>B) Administrative Layers : Village Boundary with census attributes, Integration of Circle /Block boundary</p> <p>C)Transportation layers: National Highway, State Highway, District Road, Village Road, City / Town road</p> | <p>Will ASSAC also provide the transportation layers (National Highway, State Highway, District Road, Village Road, City / Town road) along with attribute information or will the bidder have to create it?</p> | <p>If updation is required and vendors involvement is necessary all relevant data specific to scope of work will be shared subject to NDA.</p> |

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| 8. | Page No. 20 | <p>ANNEXURE- I: Qualifications & Experience</p> <p>1. M.Tech / M.Sc Remote Sensing or PGD Remote Sensing / M.Sc Geoinformatics</p> <ul style="list-style-type: none"> • Experience and proven ability to <ul style="list-style-type: none"> a) Digital image processing b) Design geodatabases and relational databases, including context-based subtypes, domains, indexing, relationship classes, c) designing topology validationrules, d) <i>designing geometrical networks using ArcGIS Desktop</i> • Ability to completely administer ArcGIS Server using Java, including publishing and managing Map, GP, Geocode, Image service, backing up the site, restoring site, cluster and machine management, managing extensions deployment and debugging, logging, security (LDAP, ADS), etc. | <p>As the functionality mentioned for ArcGIS Desktop and Server can also be done in other GIS products available in the market. Sticking to ArcGIS platform means the agency is favourably inclined toward a particular OEM only.</p> <p>Please keep it open for other COTS-based GIS software and prefer the indigenous products and local manufacturers as per the "Make in India, Made in India, & Local for Vocal" program of Indian Government. Please also consider the experience in these indigenous products.</p> | <p>All COTS GIS is applicable. Due to availability of ArcGIS platform at ASSAC it's mentioned for necessary compliance for development of database. This has nothing to do with marketing of GIS s/w. Open Source is also mentioned for ease of doing buisness.</p> |
| 9. | Page No. 20 | <p>ANNEXURE- I: Qualifications & Experience</p> | <p>As the functionality mentioned for ArcGIS Desktop and Server can also be done in other GIS</p> | <p>IT's open.</p> |

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| | | <p>2. GIS Server Software Engineer</p> <ul style="list-style-type: none"> • Minimum 5-10 years' experience creating Server Object Extensions (SOEs) for ArcGIS Server-based Map and Image services. Such experience must cover REST accessible SOEs that can take advantage of ArcGIS Security offerings. • Experience with ArcGIS Server deployment architecture and Administration API (using Arc Objects and REST API). • Experience and proven ability to <ul style="list-style-type: none"> a) Design geodatabases and relational databases, including context-based subtypes, domains, indexing, relationship classes, b) designing topology validation rules, c) designing geometrical networks using ArcGIS Desktop | <p>Products available in the market. Sticking to ArcGIS platform means the agency is favourably inclined toward a particular OEM only.</p> <p>Please keep it open for other COTS-based GIS software and prefer the indigenous products and local manufacturers as per the "Make in India, Made in India, & Local for Vocal" program of Indian Government. Please also consider the experience in these indigenous products.</p> | <p>For existing set up at ASSAC and compatibility issue thereof the platform has been mentioned.</p> |
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| 10. | Page No. 21 | <p>ANNEXURE- I: Qualifications & Experience</p> <p>3. GIS Desktop Software Engineer</p> <ul style="list-style-type: none"> • Minimum 5-10 years' experience building ArcGIS Geoprocessing Tools and Models in Java and integrating them into ArcGIS Desktop and Server programmatically. | <p>As the functionality mentioned for ArcGIS Desktop and Server can also be done in other GIS products (e.g., IGeS) available in the market. Sticking to ArcGIS platform means the agency is favourably inclined toward a particular OEM only.</p> <p>Please keep it open for other COTS-based GIS software and prefer the indigenous products and local manufacturers as per the "Make in India, Made in India, & Local for Vocal" program of Indian Government. Please also consider the experience in these indigenous products.</p> | |
| 11. | Page No. 22 | <p>ANNEXURE- I: Qualifications & Experience</p> <p>5. GIS Android / IOS Software Engineer</p> <ul style="list-style-type: none"> • Minimum 3-5 years' experience developing Android / IOS based mobile applications using ArcGIS | <p>Besides, ArcGIS Android API there are many COTS base map APIs are available that can be used to develop the mobile applications. Sticking to ArcGIS platform means the agency is</p> | <p>Since our existing facility support this the same has been mentioned for compatibility. IT will be open subject to availability of any platform and its compatibility.</p> |

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| | | <p>Android API and Google Maps Android API / Google API / open-source API</p> <p>a) Consume web GIS data using REST API or other open-source services</p> <p>b) Display GIS data, search and analyse GIS data,</p> <p>c) Edit GIS data in a mobile application</p> <p>d) Provide advanced editing such as Split/Merge of GIS features</p> | <p>favourably inclined toward a particular OEM only.</p> <p>Please keep it open for other COTS-based GIS software and prefer the indigenous products and local manufacturers as per the "Make in India, Made in India, & Local for Vocal" program of Indian Government. Please also consider the experience in these indigenous products.</p> | |
| 12. | Page No. 25 | <p>ANNEXURE IV – Basic Item of Work</p> <p>G) Grounder Prospect and Quality mapping using satellite data and ground information</p> <p>iv) Groundwater quality and prospect mapping</p> | <p>It seems there is a typo error in the sentence "<i>Grounder Prospect and Quality mapping</i>". As per our understanding it should be "<i>Ground Water Prospect and Quality mapping</i>".</p> <p>We also assume that ground water information (e.g. ground water level, ground water aquifers, etc.) will be provided by the ASSAC or concerned department.</p> | <p>If necessary based on MOU the scope of work will be defined . At this stage collection of data related issue doesn't arise.</p> <p>Terminology Ground water prospect and quality mapping is quite ok.</p> <p>If legacy data to be used the same will be collected from the concerned department. If it's a fresh tasking then filed survey to be carried out as per defined methodology.</p> |

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| 13. | Page No. 25 | ANNEXURE IV – Basic Item of Work D)Generation of Contour/Slope/Aspect, DSM, DTM and TIN | To generate DSM, DTM, DEM requires high resolution stereo satellite imagery. Please confirm, which data should be used in this case. | To be decided depending on budget provision and scale of precision required. |
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Date: 02/06/2022

Authorized Signature [In full and initials]:

Place: AhmedabadSEAL:

Name and Title of Signatory: Kantilal Ladani (Dire

Kantilal Ladani



