

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|---|---|--|
| 1. | Page # 40 & Clause 2 | Road Networks in Uttar Pradesh is approximately 3 lacs km. This data shall be prepared for 'SH','MDR' up to 'ODR' category (approximately around 40,000 Kms) | We assume that our scope of work will be of around 40,000 linear KMs of SH MDR and ODR. | Clause is self explanatory. |
| 2. | Page # 49 & Clause #4.1.5.e | Shall include all spatial features as per satellite imagery available in 200-meter corridor (100 meter on either side from center of the road) in different layers. These features include the dwellings, tree clusters, culverts, high tension (HT) lines, schools, important offices, Petrol Pumps etc. along with names and symbols wherever required, | 1. Please specify the scale of mapping for features inside 200 mtr corridor along the road. 2. It is difficult to identify & capture HT lines from satellite imagery. Kindly Suggest | No further amendment is required. |
| 3. | Page # 41 & Clause # 2.1.1 | GIS' based 'Digital Map' data, including the road geometries of NH,SH,MDR & ODR digitized from satellite image | We assume that only center lines of the Roads for all NH, SH, MDR & ODR for 51 districts are to be captured. Road edges need not to be captured. | Centerline alignment of the road is to be captured. |
| 4. | Page # 41 & Clause # 2.1.6 | All 'Rail Networks', 'Rivers', 'Major Water Bodies' and 'Forestry' shall also be digitized. | We assume that all 'Rail Networks', 'Rivers', 'Major Water Bodies' and 'Forestry' is to be captured for all 51 districts from satellite Imagery.(even outside the 200 mtr corridor) | All layers maintained in the document have to be done for the whole Uttar Pradesh. |
| 5. | Page # 44 & Clause # 3.3.1 | UPPWD will provide shape files for the road network covered in 21 districts to | We assume that the data of 21 district need not to verified & updated by Rolta and only | Clause is self explanatory. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|---|---|---|
| | | consultant, including which the Consultants will prepare final layers. | be used for edge-matching with data of newly converted 51 districts as a reference. Kindly specify the data layers, format of 21 district which have been already prepared | |
| 6. | Page # 44 & Clause # 3.3.1 (last point on the page) | Feature extraction – Following features shall be plotted by GPS survey. Survey includes GPS points and digital photograph(s) Kilometer Posts (Mile stones), Culverts, Bridges, Road signage boards, Important buildings like Schools, Hospitals, Trauma Centers, Temples / Religious structures. | 1. Kindly provide the approximate counts for these features for Estimation purpose. 2. Rolta assumes that only one GPS point will be collected and plotted in GIS for all the listed features. | Consultant may inspect the site in light of RFP. |
| 7. | Page # 45 & Clause # 3.3.1 (3 rd bullet on the page) | Culverts and bridges shall be plotted as a separate layer | Kindly confirm these features should be shape or point feature, as if captured from satellite is could be shape and if GPS is taken it could be point feature and we can attach a required symbol to it. | Culverts as point and bridges as area. |
| 8. | Page # 45 & Clause # 3.3.1 (4 th bullet on the page) | Road furniture features are of special interest to PWD, therefore they require some detailed information in structured format. This information must be prepared using Relational Database preferably in MS Access. | 1. Kindly provide us a table structure (including column description of the data to be collected for each feature), required for estimation. 2. The required data can be delivered in (Is MS Access is necessary) 3. Whether .dbf file will serve the purpose | This point is already clarified elaborately in RFP. The shape file will not serve the purpose. No RDBMS software has been deployed for web application. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|--------|---|--|---|--|
| | | | 4. Kindly provide details of RDBMS software that has been deployed for Web Application at Lucknow by PWD GIS team? | |
| 9. | Page # 45 & Clause # 3.3.1 (6 th bullet on the page) | Layers for administrative boundaries like District boundaries, Com missionary boundaries, Tahsil, Block | We will appreciate if UPPWD can provide any of the maps mentioned for remaining 51 districts if available at UPPWD used at conversion of 21 districts. | UPPWD have no such map, consultant have to arrange from authorized department themselves. |
| 10. | Page # 46 & Clause # 3.3.1 (5 th bullet on the page) | PWD will provide hard copies of data to consultant. They will be in the formats as They are currently being used in PWD. This data shall be district wise and it may not be consistent for directly using into database. | <ol style="list-style-type: none"> Kindly let us know the number of pages per district. Kindly provide a sample data if possible of this Hard copy. | <p>No need of any clarifications.</p> <p>Hard copy of sample data as per annexure I will be provided at the time of execution. This may not be compatible as per requirement of the system. Making data compatible for the system is the responsibility of the consultant.</p> |
| 11. | Page # 56 & Clause # 8.4 | Field Surveys and Ground Truthing through GPS Survey shall be done to name features in 200m corridor along the road. This shall be carried out by the Consultants' survey team, with the help of GPS instrument, for total length of SH to ODR. In addition the Ground Truthing of important landmark points using available maps and other data sets. | We assume that the Field Surveys and Ground Truthing through GPS Survey shall not to be carried out along the National Highways. Please confirm. | National Highways have been included for the survey. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|--|--|--|
| 12. | Page # 47 & Clause # 3.3.2 | Both reference and attribute data to be provided by the 'UPPWD' | Is this data available in database or is it available in Hard copies and data entry is required. | It will be available in hard copy only district wise. |
| 13. | Page # 47 & Clause # 3.3.3.2 | The Road features to be extracted shall include Kilometer Stones, Culverts, Trees, Dwellings, Settlements, Trauma Centers, Police Stations, Inspection House etc. and all other important monuments falling within 200 m corridor. | <ol style="list-style-type: none"> 1. Kindly confirm that the Trees are to be captured from the satellite imagery. 2. Kindly provide guideline for capturing of Settlement and individual Dwellings. | <p>Yes trees have to be captured by the satellite imagery.</p> <p>Full details have to be shown in 200 m corridor as per RFP.</p> |
| 14. | Page # 47 & Clause # 3.3.4 | Consultant shall ensure compatibility with the existing Application Developed. | <ol style="list-style-type: none"> 1. We will provide the required layers in standard shp file format as desired by UPPWD. 2. Kindly let us know the operation and detail functioning of existing Application developed by UPPWD GIS department. | <p>As per scope of RFP consultants have to provide all deliverable.</p> <p>A presentation has been given to the participants, during pre-bid meeting..But department does not bear any responsibility. However RFP conditions will be unaffected by this presentation.</p> |
| 15. | Page # 48 & Clause # 4.1.1.a | Deliverables –Shape files | We assume that Road furniture features are also need to be delivered along Road, administration boundaries, forest and other features shp files. Kindly confirm. | Yes, deliverables are clear in the RFP. |
| 16. | Page # 49 & Clause # 4.1.8 | Training shall be provided to 51 Officers of UP PWD | We assume that the training will be conducted at Lucknow HQ of UPPWD for all the 51 officers. PWD will arrange the staff travel and other expenses. Rolta will | All expenses will be borne by consultant except travelling and boarding expenses. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|--------|--------------------------------------|---|--|---|
| | | | take care of expenses occurred on Rolta staff. | |
| 17. | Page # 52 & Clause # 7.1.1.6 | Naming of roads as per the paper maps provided by 'UPPWD' | <ol style="list-style-type: none"> 1. We would like to carry out this activity at Rolta India Ltd. Production house at Mumbai for speedy completion. Can these maps made available at production center at Mumbai while production. 2. Provide us approximate counts of these maps. | <p>All activates are to be carried out at Lucknow.</p> <p>The paper maps provided will be only for references such as naming. These are neither geo-reference and nor to the scale.</p> |
| 18. | Page # 52 & Clause # 7.1.2 | Road attributes as per ' ANNEXURE I ' provided by 'UPPWD' shall also be attached to GIS data | We assume that these data are available in database and not in the Hard copies. Kindly confirm. | The attribute data will be provided in hard copy only. |
| 19. | Page # 52 & Clause # 7.2 | Consultant shall ensure that 'GIS' based 'Digital Map' hosted on web server (Apollo Server) shall be easily accessible by commonly used browsers (Such as Internet Explorer, Safari and Firefox). | Consultant's role is to provide final deliverable in shp format, the web application is designed and maintained by GIS team of UPPWD will take care of hosting on web server. | The consultant has to publish the data on the application server at UPPWD. |
| 20. | Page # 42 & Clause # 3.1 | Image processing and attributes data attachment shall be done at Lucknow (U.P) | <ol style="list-style-type: none"> 1. We request that the Image processing, data conversion & attributes data attachment will be carried out at Rolta India, Production center at Mumbai. This will help in faster completion of task and quality output. 2. A survey team will be deployed at the | As per point 17. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|--------|--------------------------------------|--|--|---|
| | | | <p>district which will carry out</p> <p>3. Survey at respective district and the surveyed data will be sent to Rolta production center at Mumbai for providing final product.</p> <p>4. Post ground Truthing and validation; the suggested changes will be implemented and delivered to UPPWD.</p> | <p>Please refer RFP.</p> <p>Please refer RFP.</p> |
| 21. | Page # 48 & Clause # 4.1.3 | The 'GIS' data shall cover all the roads up to ODR level for districts as per ANNEXURE III., except for NH for which only digitized map for road geometry shall be provided. | <p>1. We assume that the attribute linking is not required for NH, only road geometry conversion from satellite imagery will be carried out for NH.</p> <p>2. Do we need to capture other Road furniture features, dwellings, settlements, etc. from satellite image for the 200 mtr corridor for NH?</p> <p>3. Do we need to carry out GPS survey along the NH for any feature? Kindly confirm.</p> | <p>NH has been included for linking of attribute data.</p> <p>YES</p> <p>Yes, GPS survey has to done along NH too..</p> |
| 22. | General | | Kindly provide the scale and format of the secondary inputs to be provided by UPPWD. | As per RFP. |
| 23. | Page # 44 & Clause # | The satellite image required for digitizing roads and other features for extraction of | Please provide details of satellite imagery that has been used for Pilot. Whether | PWD has no preference but satellite image should be of resolution <= 1 m |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|--|--|--|
| | 3.3.1 | vector map shall be procured by GIS consultants at their cost/ should have owned it in a legal way. | UPPWD has any preference (IKONOS, Cartosat, World View, etc.) | and positional accuracy 1m to 5m. |
| 24. | Page # 41 & Clause # 2.1/ 4 | All revenue villages shall be marked with different symbols depending upon population groups based on 2001 census. | The scope does not include creation of polygon boundary of cadastral villages Please clarify? Rolta assumes to capture point location of the revenue village only | Village has to be plotted as point entity in different population range. |
| 25 | | | We understand that the EMD of Rs 2, 70,000/- has to be submitted along with bid in form of FDR/ NSC. In the recent past in many world bank funded tenders including domestic and international tenders the EMD/Bid Security has been accepted in the form of Bank Guarantee. We request you tot kindly accept the EMD in the form of Bank Guarantee for this RFP also. | No further amendment is required. |
| 26 | | | We request you to kindly extend the due date for submission by another 15 days i.e. from 24.03.2011 to 08.04.2011 as the pre-bid meeting is scheduled today i.e. 18.03.2011 and it shall take time to publish the pre-bid minutes. Normally, due date for submission will be 15-20 days after the release of pre-bid minutes. | The date of technical Bid has been extended and corrigendum has been issued now date of submitting proposal is 07/04/11 instead of 24/03/11. |
| 27 | | | Does UPPWD (client) have preference for | UPPWD has installed ERDAS Apollo |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|----------------------|---|--|
| | | | any Specific deployment platform in terms of Operating System, Database and Application server software? Is UPPWD ok if solution is proposed on Open Source environment? | Server and consultant has to publish data on it. |
| 28 | | | Will the Hardware, Infrastructure and Hosting be taken care of by UPPWD? Do the UPPWD offices have required networking infrastructure (LAN, WAN) already in place? | For production environment no infrastructure shall be provided by UPPWD. It has to be arranged by consultant only. |
| 29 | | | Will UPPWD provide the data for road geometries, rail network, water bodies etc to be plotted on maps? | No. Authentic information have to be gathered by consultant. |
| 30 | | | In the existing application (pilot project for 21 districts) which is functional at GIS lab, how many data layers (levels of resolution) have been shown? What database has been used in that system? | A presentation has been given to the participants, during pre-bid meeting. But department does not bear any responsibility. However RFP condition will remain unaffected by presentation |
| 31 | | | The requirement is to develop GIS based digital maps for 51 districts using the satellite imagery. This should be in line with the maps of existing 21 districts. Is this correct? | Already covered above. |
| 32 | | | How many levels of resolution are required | Already mentioned in the RFP. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|----------------------|--|--|
| | | | for the vector maps in the system? | |
| 33 | | | Is there any reporting requirement? If so, how many reports will be there? Are the report formats available? | Reports have to develop as per deliverable. |
| 34 | | | For internal users to the system, is there any need for role based user access? Will the internal users of UPPWD have access to update the maps or is it that only the support team can modify the maps? | It is not relevant to RFP. |
| 35 | | | Does the vendor need to provide Helpdesk support? What will be the hours and days of operation? | GIS consultants have to provide one year support as mentioned in RFP. |
| 36 | | | Is there documentation available about the existing system? Requirement specifications or design documents? | Yes. The consultant will be required to make data compatible with the existing system. |
| 37 | | | Do we have clarity on the existing process gaps? Is it required to perform a gap analysis? This information helps in estimate preparation. | The methodology has to be defined by consultant. |
| 38 | | | Is consortium allowed for the proposed solution? | As per RFP. |
| 39 | | | Will UPPWD form a team who will provide vendor with the basic knowledge of the strategy as well as the study of the existing | No, Consultant is supposed to be competent for the work. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|--------|--------------------------------------|---------------|--|--|
| | | | system? | |
| 40 | | | Is it required to store the physical documents/ field survey reports in a centralized content management system? | Yes, survey details have to be provided to the client. |
| 41 | | | What could be the maximum number of users using the application at peak time? | No limitation. |
| 42 | | | What is the database size of the pilot application database which holds data for 21 districts? This information is important in order to estimate the database size for the remaining 51 districts. | A presentation has been given to the participants, during pre-bid meeting. But department does not bear any responsibility. However RFP condition will remain unaffected by presentation |
| 43 | | | Will the new system need to leverage the existing database? Or can a new design be carried out to replace the earlier one? | No need to clarify. |
| 44 | | | Is there any data digitization or migration requirement? Is it needed to migrate data from existing pilot application to the new system? | Data has to be made compatible with existing one. |
| 45 | | | Request to post-pone the Bid Submission deadline by atleast two Weeks. This is a very large Bid & to compile the complete bid in a week's time is not possible. We hence sincerely request the department to extend the submission deadline by atleast | Date for the submission of Proposal has been extended from 24/03/11 to 07/04/11 as per corrigendum. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| Sl. No | Tender Reference (Page No/Clause No) | Tender Clause | Observation | Response to Queries |
|---------------|---|----------------------|---|---|
| | | | two weeks further. | |
| 46 | | | Railway network major water body and rivers required by all 51 district or for 200 m buffer zone only. | Railway networks, major water body and river will be all the whole of UP with proper identification parameters. |
| 47 | | | Will Department provide village & district maps. | No map will be provided by department. |
| 48 | | | Accuracy of GPS survey of kilometer post. | Mentioned in the RFP. |
| 49 | | | Department will provide the satellite image or not ? | No satellite imagery will be provided by the UPPWD. |
| 50 | | | Department will provide the Road, bridge, attributes like crust thickness etc. | Attributes data will be provided by the UPPWD in Hard Copy. |
| 51 | | | Implementation firm have to generate layer only up to ward level, Taluka level or up to district level. | Consultants have to develop layers as per RFP. |

Request for Proposal - Consultancy Services for preparation of GIS based digital maps containing important geo-referenced layers including cost of digital maps and road side features extraction, and road attributes attachment for fifty one districts of Uttar Pradesh

Pre-bid Meeting held on 18-03-2011 Query and Client's Response details

| General | | | | |
|---------|------------------------|---|--|---|
| S.No. | RFP Clause No. | Clause | Observation | Changed clause should be read as |
| 52 | 3.3.1 | Satellite image required for digitizing roads and other features for extraction of vector map shall be procured by GIS consultants at their cost/Should have owned it in a legal way. | It was observed that no one can own satellite Imagery. | “The consultant should have legal rights to use Imagery for the project. |
| 53 | 3.3.1 | Extraction of Road Geometry from recent Imagery of resolution <=1 meter and not older than 2009 | It was observed that this latest Satellite Imagery may not be available for whole UP | “Extraction of Road geometry from the latest Imagery of resolution <=1 meter” |
| 54 | 9.11 And Appendix C | Qualifications for Team Leader “M. Tech (Civil)/MSC. (Remote Sensing/GIS) Experience for Data Collection Specialist “Minimum of 5 years experience in GIS data collection”. Qualification for GIS Engineer “B. Tech./B.E. (Civil) | | Qualifications for the Team leader. “M. Tech (Civil) / M.Sc. (Earth Sciences) Experience for the Data Collection Specialist. Now it is read as “Minimum 5 years in GIS / RIS Data collection Qualification for the GIS Engineer. “PG Diploma in GIS / B Tech / B.E. (Civil) |

(A.K. Gupta)
Chief Engineer
World Bank Project (Roads)
UPPWD, Lucknow