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| **Purpose of Activity/Assignment:** UNICEF Rajasthan supported Rajasthan State Pollution Control Board (RSPCB) in June 2016 for developing a Mobile App, *RajVayu*, along the lines of Ministry of Earth Sciences (MoES), Government of India (GoI)’s state-of-the-art SAFAR (System of Air Quality and Weather Forecasting And Research). This Mobile App, *RajVayu*, was launched by the Hon’ble Chief Minister of Rajasthan. *RajVayu* is an early warning system, currently informing the citizens of Rajasthan of air quality and associated health advisories across three cities of Rajasthan. The three cities are Udaipur, Jodhpur and Jaipur. In February 2017, the Rajasthan State Pollution Control Board has expanded the monitoring stations within Jaipur as well as included five more cities. These cities are Kota, Alwar, Bhiwadi, Ajmer and Pali. Against this backdrop, there is a need to upgrade this Mobile App and establish a mechanism for quality assurance and maintenance. Therefore, there is a need to engage the services of a software developer.  |
| Budget Year | Requesting Section/Issuing Office: | Key reasons why consultancy cannot be done by staff: |
| 2017 | Disaster Risk Reduction, Emergency | Upgradation of Mobile App, *RajVayu*, is highly specialised, technical and sophisticated.  |
| **Supervisor:** Emergency Officer, UNICEF Rajasthan  | **Proposed Start Date:** | **Proposed End Date:** | **Number of Days/Months (working)** |
|  | *May 1, 2017* | *August 31, 2017* | 60 days  |
| **Location: Home based with travel to Jaipur as & when required** |

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| **Work Assignment Overview** |
| **Tasks:** | **Deliverables/Outputs:** | **Date** | **Budget Amount** **(estimated)** |
| **Task 1:** 1. Review current Mobile App, Raj Vayu, in the light of expansion
2. Develop upgraded version of Mobile App, *RajVayu* to include more monitoring stations in Jaipur and include new cities of Kota, Pali, Alwar, Ajmer and Bhiwadi
 | 1. Upgraded Mobile App, *RajVayu*
 | 15 May 2017 | 30% |
| **Task 2:** 1. Web-service JSON integration for android & iPhone with Mysql database of website
 | 1. Processed and linked data visible on the Mobile App, *RajVayu*
 | 15 May 2017 | 20% |
| **Task 3:**1. Testing of Mobile App for display of authentic data smooth functioning
 | 1. Functional Mobile App,  *RajVayu,* with authentic data available on public domain
 | 15 June 2017 | 20% |
| **Task 4:**1. Develop a manual for setting up a quality assurance and maintenance mechanism
 | 1. Manual for setting up a quality assurance and maintenance mechanism
 | 15 June 2017 | 15% |
| **Task 5:**1. Content management system for Manual Data Entry, FTP data management with switching to Auto mode and Manual mode
 | 1. Manual for content management system
 | 31 August 2017 | 15% |
| **Travel Local (please include travel plan)** | **Travel to Jaipur city for two meetings** |  |  |
| **Terms of payment****Deliverable payment of fees, inclusive of travel allowances, upon completion and submission of reports** | [x]  Payment, upon completion of each deliverable according to schedule.[ ]  Payment, upon completion of all deliverables at the end of assignment.[ ]  Fee advance, percentage (up to 30 % of total fee) |
| **Minimum Qualifications required:** | **Knowledge/Expertise/Skills required:** |
| [ ]  Bachelors [ ]  Masters [ ]  PhD [x]  Other Enter DisciplinesAndroid based application development  | **Work Experience:**  * Experience of working on Apps such as SAFAR, etc;
* Experience in development of similar types of iPhone device based application;
* Proven ability to work in FTP data management and content management system.
* Ability to use computer software i.e. Windows XP, MS Office, MS Excel, PowerPoint, GIS and Internet based programmes;
* Previous experience working with UN or bilateral agency will be an advantage;

**Languages:** Fluency in English and Hindi. **Critical Competencies:**Technical* Proven ability to conceptualize, innovate, plan and execute ideas and systems.
* Ability to express clearly and concisely ideas and concepts convincingly in written and oral form.
* Ability to plan, coordinate and manage multi activities and adjust to changing priorities.
* Ability to organise, manage and participate within teams.
* Ability to organize and implement training aimed to building capacity.
* Ability to analyze data, identify bottlenecks to improve systems and provide recommendations
* Good interpersonal skills to ensure effective working relationship with partners and colleagues. Sensitivity to partner’s needs and expectations, maintaining open communications.
* Innovative, able to take risk and able to lead or participate in change to keep operations working. Practical solution oriented.
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**Financial Bid**

**INDIVIDUAL CONSULTANT FOR SOFTWARE DEVELOPER (2017)**

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| **Major Tasks** | **Deliverable (s)** | **UNICEF Estimate** | **Consultant's Proposal** |
| **Estimated deadline for completion of deliverable (please mention as days/months)** | **Estimated travel required for completion of deliverable (please mention destination/ number of days)** | **Complete timeframe for deliverable** | **Cost (INR)**(All inclusive i.e. professional fee, travel, DSA, communication, etc.) |
| **Task 1:** 1. Review current Mobile App, Raj Vayu, in the light of expansion
2. Develop upgraded version of Mobile App, RajVayu to include more monitoring stations in Jaipur and include new cities of Kota, Pali, Alwar, Ajmer and Bhiwadi
 | * Upgraded Mobile App, *RajVayu*
 | 15 days | Travel from Home to Jaipur for one meeting |  |  |
| **Task 2:** 1. Web-service JSON integration for android & iPhone with Mysql database of website
 | * Processed and linked data visible on the Mobile App, *RajVayu*
 | 15 days |  |  |  |
| **Task 3:** 1. Testing of Mobile App for display of authentic data smooth functioning
 | * Functional Mobile App,  *RajVayu,* with authentic data available on public domain
 | 5 days | Travel from Home to Jaipur for one meeting |  |  |
| **Task 4:** 1. Develop a manual for setting up a quality assurance and maintenance mechanism
 | * Manual for setting up a quality assurance and maintenance mechanism
 | 10 days |  |  |  |
| **Task 5:** 1. Content management system for Manual Data Entry, FTP data management with switching to Auto mode and Manual mode
 | * Manual for content management system
 | 15 days |  |  |  |
| * TOTAL AMOUNT IN RUPEES
 |

*Shaded area to be filled in by consultant*

**Name of the Bidder:**

**Address:**

**Contact no.:**

**Email address:**

**Date :**

**TECHNICAL EVALUATION CRITERIA**

**Consultant Soft Ware Developer**

1 | Educational Qualifications 10 Marks

2 | Relevant Experience 20 marks

3 | Expertise 20 Marks

4 | Language 10 Marks

5 | Experience in Bilateral/International/UN agencies 10 Marks

6. | Interview by UNICEF JFO panel of Experts 30 Marks

* Total Score should be 100.
* Minimum overall qualifying score should be 70.

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| P.11 (2-74) - E |
| **INSTRUCTIONS**Please answer each question clearly and completely. **Type or print in ink.** Read carefully and follow all directions. | **UNITED**  **NATIONS****PERSONAL HISTORY** | **Do Not Write in This Space** |
| **1.** Family name | First name | Middle name  | Maiden name, if any |
| **2.** Dateof Birth | Day | Mo. | Yr. | **3.** Place of birth | **4.** Nationality (ies) at birth | **5.** Present nationality (ies) | **6.** Sex |
| **7.** Height | **8.** Weight | **9.** Marital status: Single [ ]  | Married [ ]  | Separated [ ]  | Widow(er) [ ]  | Divorced [ ]  |
| **10.** | Entry into United Nations service might require assignment and travel to any area of the world in which the United Nations might have responsibilities. Have you any disabilities which might limit your prospective field of work or your ability to engage in air travel? YES [ ]  NO[ ]  If “yes”, please describe. |
|  |  |
| **11.** Permanent address | **12.** Present address (if different) | **13.** Office Telephone No.  |
|  |  |  Office Fax. No E-mail: |
|  Telephone No.  |  |  Telephone/Fax No.  |  |  |
| **15.** Have you any dependents? |
|  | YES[ ]  NO [ ]  If the answer is “yes”, give the following information: |
| NAME | Date of Birth | Relationship | NAME | Date of Birth | Relationship |
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| **16.** Have you taken up legal permanent residence status in any country other than that of your nationality? If answer is “yes”, which country? | YES [ ]  NO[ ]  |
| **17.** Have you taken any legal steps towards changing your present nationality? If answer is “yes”, explain fully: | YES [ ]  NO[ ]  |  |
|  |  |
| **18.** Are any of your relatives employed by a public international organization? If answer is “yes”, give the following information: | [ ]  YES [ ] NO |
| NAME | Relationship | Name of International Organization |
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| **19.** What is your preferred field of work? |  |
| **20.** Would you accept employment for less | **21.** Have you previously submitted an application for employment with U.N.? |
|  than six months | YES [ ]  NO[ ]  |  if so when? |  |
| **22.** KNOWLEDGE OF LANGUAGES. What is your mother tongue?  |
|  | READ | WRITE | SPEAK | UNDERSTAND |
|  |  | Not |  | Not |  | Not |  | Not |
| OTHER LANGUAGES | Easily | Easily | Easily | Easily | Easily | Easily | Easily | Easily |
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| **23.** For clerical grades only *Indicate speed in words per minute* |   *List any office machines or equipment* *you can use* |
|  |  |  | O t h e r l a n g u a g e s |  |
|  | E n g l i s h  | F r e n c h |  |  |  |
| Typing |  |  |  |  |  |
| Shorthand |  |  |  |  |  |
| **24.** EDUCATIONAL. Give full details - N.B. Please give exact titles of degrees in original language.A. UNIVERSITY OR EQUIVALENT Please do not translate or equate to other degrees. |
| NAME, PLACE AND COUNTRY | ATTENDED FROM/TO | DEGREES and ACADEMIC | MAIN COURSE OF STUDY |
|  | Mo./Year | Mo./Year | DISTINCTIONS OBTAINED |  |
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| B. SCHOOLS OR OTHER FORMAL TRAINING OR EDUCATION FROM AGE 14 (e.g. high school, technical school or apprenticeship) |
| NAME, PLACE AND COUNTRY | TYPE | ATTEND FROM/TO | CERTIFICATES OR |
|  |  | Mo./Year | Mo./Year | DIPLOMAS OBTAINED |
|  |  |  |  |  |
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| **25.** LIST PROFESSIONAL SOCIETIES AND ACTIVITIES IN CIVIC, PUBLIC OR INTERNATIONAL AFFAIRS |
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| **26.** LIST ANY SIGNIFICANT PUBLICATIONS YOU HAVE WRITTEN (do not attach) |
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| **27.**  | EMPLOYMENT RECORD: **Starting with your present post, list in reverse order every employment you have had.** Use a separate block for each post. Include also service in the armed forces and note any period during which you were not gainfully employed. If you need more space, attach additional pages of the same size. Give both gross and net salaries per annum for your last or present post.A. PRESENT POST (LAST POST, IF NOT PRESENTLY IN EMPLOYMENT) |
| FROM | TO | SALARIES PER ANNUM | EXACT TITLE OF YOUR POST: |
| MONTH/YEAR | MONTH/YEAR | STARTING | FINAL |  |
|  |  |  |  |  |
| NAME OF EMPLOYER: | TYPE OF BUSINESS: |
|  |  |
| ADDRESS OF EMPLOYER: | NAME OF SUPERVISOR: |
|  |  |
|  | NO. AND KIND OF EMPLOYEES | REASON FOR LEAVING: |
|  | SUPERVISED BY YOU: |  |  |
| DESCRIPTION OF YOUR DUTIES |
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| B. PREVIOUS POSTS *(IN REVERSE ORDER)* |
| FROM | TO | SALARIES PER ANNUM | EXACT TITLE OF YOUR POST: |
| MONTH/YEAR | MONTH/YEAR | STARTING | FINAL |  |
|  |  |  |  |  |
| NAME OF EMPLOYER: | TYPE OF BUSINESS: |
|  |  |
| ADDRESS OF EMPLOYER: | NAME OF SUPERVISOR: |
|  |  |
|  | NO. AND KIND OF EMPLOYEES | REASON FOR LEAVING: |
|  | SUPERVISED BY YOU:  |  |
| DESCRIPTION OF YOUR DUTIES |
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| FROM | TO | SALARIES PER ANNUM | EXACT TITLE OF YOUR POST: |
| MONTH/YEAR | MONTH/YEAR | STARTING | FINAL |  |
|  |  |  |  |  |
| NAME OF EMPLOYER: | TYPE OF BUSINESS: |
|  |  |
| ADDRESS OF EMPLOYER: | NAME OF SUPERVISOR: |
|  |  |
|  | NO. AND KIND OF EMPLOYEES | REASON FOR LEAVING |
|  | SUPERVISED BY YOU***:***  |  |
| DESCRIPTION OF YOUR DUTIES |
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| FROM | TO | SALARIES PER ANNUM | EXACT TITLE OF YOUR POST: |
| MONTH/YEAR | MONTH/YEAR | STARTING | FINAL |  |
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| NAME OF EMPLOYER: | TYPE OF BUSINESS: |
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| ADDRESS OF EMPLOYER: | NAME OF SUPERVISOR: |
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|  | NO. AND KIND OF EMPLOYEES | REASON FOR LEAVING |
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| DESCRIPTION OF YOUR DUTIES |
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| FROM | TO | SALARIES PER ANNUM | EXACT TITLE OF YOUR POST: |
| MONTH/YEAR | MONTH/YEAR | STARTING | FINAL |  |
|  |  |  |  |  |
| NAME OF EMPLOYER: | TYPE OF BUSINESS: |
|  |  |
| ADDRESS OF EMPLOYER: | NAME OF SUPERVISOR: |
|  |  |
|  | NO. AND KIND OF EMPLOYEES | REASON FOR LEAVING |
|  | SUPERVISED BY YOU:  |  |
| DESCRIPTION OF YOUR DUTIES |
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| **28.** HAVE YOU ANY OBJECTIONS TO OUR MAKING INQUIRIES OF YOUR PRESENT EMPLOYER? YES [ ]  NO[ ]  |
| **29.** ARE YOU NOW, OR HAVE TO EVER BEEN, A PERMANENT CIVIL SERVANT IN YOUR GOVERNMENT’S EMPLOY? YES[ ]  NO [ ]  |
|  If answer is “yes”, WHEN?  |
|  |
| **30.** REFERENCES: List three persons, not related to you, who are familiar with your character and qualifications.***Do not repeat names of supervisors listed under item 27.*** |
| FULL NAME | FULL ADDRESS | BUSINESS OR OCCUPATION |
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| **31.** STATE ANY OTHER RELEVANT FACTS, INCLUDING INFORMATION REGARDING ANY RESIDENCE OUTSIDE THE COUNTRY OF YOUR NATIONALITY |
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| **32..**  | HAVE YOUR EVER BEEN ARRESTED, INDICTED, OR SUMMONED INTO COURT AS A DEFENDANT IN A CRIMINAL PROCEEDING, OR CONVICTED, FINED OR IMPRISONED FOR THE VIOLATION OF ANY LAW (excluding minor traffic violations)? YES [ ]  NO[ ] If “yes”, give full particulars of each case in an attached statement. |
|  |
| **33**. Please specify from where you came to know about the job advertisement. |
| **34.** | I certify that the statements made by me in answer to the foregoing questions are true, complete and correct to the best of my knowledge and belief. I understand that any misrepresentation or material omission made on a Personal History form or other document requested by the Organization renders a staff member of the United Nations liable to termination or dismissal. |
|  | DATE:  |  |  | SIGNATURE :  |  |
|  |
| **N.B.** | You will be requested to supply documentary evidence which supports the statements you have made above. Do not, however, send any documentary evidence until you have been asked to do so by the Organization and, in any event, do not submit the original texts of references or testimonials unless they have been obtained for the sole use of the Organization. |
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