

NATIONAL REMOTE SENSING CENTRE (NRSC)  
DEPT. OF SPACE, GOVT. OF INDIA  
BALANAGAR, HYDERABAD – 500 625.

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TENDER NO. PT-64/10-2011-000-842

DATED JANUARY 19, 2012

Last date for issue of  
Tender Documents : 14/02/2012 UPTO 1630 HRS.

Due on : 15/02/2012 UPTO 1030 HRS.

Tender Opening Date : 15/02/2012 AT 1500 HRS.

TENDER DOCUMENTS

SL NO.	DESCRIPTION	QTY.
1.	Contracting of Bhuvan content generation & database creation for the period from 01-04-2012 to 31-03-2013. <b>Note : Vendor shall comply with Annexure-I to Annexure-VI</b> Nature of Activities as per Annexure-I Terms and Conditions as per Annexure-II Proposed Manpower as per Annexure – III Requirement Table as per Annexure – IV Important Instructions for Two Part Bid as per Annexure-V Special Terms & Conditions as per Annexure - VI	12 Months

## ANNEXURE-1

### Nature of Activities of Bhuvan Project & Terms and conditions

#### 1. Nature of Work

Bhuvan is a virtual India program developed by Indian space Research Organization (ISRO). The Bhuvan project envisages the seamless visualization of various resolutions of IRS images on 3D Globe for the benefit of user community.

The following content generation activities are planned for 2012-'13 financial year

1. AWiFS full India mosaic creation for 3 seasons for the year 2011.
2. AWiFS Global mosaic creation using Resourcesat-2 data sets.
3. Cartosat-1 with L4-Mx color data preparation for parts of Indian Territory.
4. LISS-III Full India mosaic of India for the year 2011.
5. Cartosat 2/2A with L4-Mx color data for state capitals/Cities/Towns

These activities include identification of control points from reference data by interactive and semi-interactive processes, reference data preparations for ortho-rectification, image registrations and tile generations, which also include Contrast image enhancements, NCC conversions using COTS Image Analysis packages and VAPS software.

To meet this requirement, around 600 AWiFS full scenes are to be orthorectified along with 200 L3 fullscenes. As part of 2.5m color data preparation, around 5000 cartosat-1 scenes are to be merged with L4MX and also 1000 Cartosat-2 scenes are to be merged with L4MX scenes. Depending on data availability, this is estimated to be completed in one year in 2 shift operations with 5 persons, Accordingly 5 persons per shift are required for one year.

It is planned to carry above activities using following software's

- I. **Image Analysis packages:** Generation of orthorectified products using COTS packages like ERDAS, ENVI etc. and in-house developed softwares. The activities includes
  - A. Importing satellite data from media like CD/DVD/Disk etc to native format.
  - B. Reference data preparation in COTS package includes sub setting and mosaicking.
  - C. Manual control point identification accurately from ETM/Reference data
  - D. Orthorectification and quality verification of tiles generated.

#### II. Tile preparations

Generation of tiles in Bhuvan format using Image Analysis packages which includes NCC conversion, Image Contrast enhancements, Compression etc.

#### III. Other Activities

- Periodic Back-ups
- Status monitoring and Progress reports
- Any other processes as required will be added from time to time.

Operations are planned to carryout on the windows and Linux environment (Xeon and Itanium systems) with NAS/SAN storage.

## ANNEXURE-II

### TERMS AND CONDITIONS:

1. WorkPlace: The work place is at National Remote Sensing Centre (NRSC), Balanagar, Hyderabad.
2. Please furnish the information related to personnel to be deployed under this work order as per Annexure-III.
3. The personnel deployed by the vendor should be technically competent to carry out the job on Linux and Windows operating systems. Experience on any Image Analysis Package (COTS) package is preferable.
4. Qualification : The persons should have any of the following qualifications – BCA / B.Sc / Diploma (ECE/CS) or Higher.
5. The Vendor shall deploy dedicated persons to carry out 2 shift operations on all 7 days of a week except on NRSC shift closed. The shift timings are A (6:00 to 14:30), B (14:00 to 22:30). Five persons in each shift are to be deployed.
6. Training: Training to operate the application software (tile Image Orthorectification / Mosaicking / Enhancement / Edge matching and other specific to this work) will be given to the scheduled personnel. The vendor must ensure that the trained persons should not leave the assignment at least for six months. Training will be provided for maximum of 14 people at start of contract, any subsequent requirement of training, in case of change of manpower/ new manpower etc, 3 shifts will be accounted for training and no payment for this period.
7. If required, NRSC may extend the work order for the period/months required, if the services are found satisfactory at its own discretion
8. In case, a person he / she is excessively absent/in-efficient, reported by the officer (NRSC), the vendor should replace such people by suitable person. The replaced person has to undergo training as identified in point #6.
9. The contractor shall pay the work force not less than the minimum wages as per the existing provisions of Minimum Wages Act. In this connection the relevant government rules (Andhra Pradesh State and Central Labour Rules) as applicable from time to time shall be followed.
10. The contractor should comply with the existing provisions of Employees State Insurance (ESI) and Employees Provident Fund (EPF) Acts in respect of the work force employed by him.
11. Compliance with payment of minimum wages and ESI, EPF etc. shall be the sole responsibility of the contractor and any violation or non-compliance shall be viewed very seriously resulting in penal action as well as termination of the contract depending on the seriousness of the violation. Hence the contractor is expected to equip himself with necessary wage structure and shall have the EPF, ESI code / coverage number. Vendors without EPF, ESI will not be considered for the award of Contract.
12. The contractor shall also furnish the following documents
  - a) Copy of Registration Certificate in form C-II
  - b) Challans of contributions paid to ESI & PF office in respect of work force deployed for each month shall be submitted along with bill for payment.

- c) 'No Due Certificate or Clearance Certificate' from ESI & PF office at the end of the financial year
  - d) Character and Antecedents verification certificate issued by the concerned police station in respect of the work force deployed.
13. Any loss or damages caused by the work force to the properties of NRSC during the execution of the work shall be made good by the contractor at his own cost, failing which cost thereof, shall be recovered from the contractor's bill.
  14. The contractor will be solely responsible for the safety of the work force employed by him against all hazards at the work place and shall take care of all the welfare measures for the work force.
  15. It is to emphasize that this will be purely a work contract intended to carry out the prescribed works and at no stage shall this be construed / interpreted as a Labour Contract.
  16. Any increase in the minimum wages during the tenure of the contract shall be taken care of by the contractor.
  17. During the execution of work, if it is found that the performance is not satisfactory or non-compliance with any of the stipulated conditions are observed, the contract will be liable to be terminated with 30 days prior notice.
  18. The Contractor alone shall be the Principal employer for their employees and shall abide by all the State and Central Laws concerning the labour and workmen in force in India. In the event any relief is granted to the worker or workmen on the roll of the contractor under the Contract Labour (Abolition) Act either in terms of any order passed by the State Government or Central Government, it shall be the responsibility of the Contractor to ensure that any loss suffered by NRSC is reimbursed in full.
  19. That any dispute between NRSC and the Contractor shall be resolved amicably. In the event the dispute is not resolved amicably the dispute shall be referred to the Sole Arbitrator appointed by Head Personnel and General Administration of National Remote Sensing Centre. On a request made by the Contractor, the Head Personnel & General Administration shall appoint the Sole Arbitrator within a period of 180 days from the date such request is made. The NRSC shall also have the right and authority to refer the dispute to Head Personnel & General Administration to appoint a Sole Arbitrator to adjudicate the dispute between the parties. The award passed by the Sole Arbitrator thus appointed shall bind both the parties. The place of Arbitration shall be at Balanagar, Hyderabad only. The Award passed by the Sole Arbitrator shall be subject to the jurisdiction of Courts situated at Rangareddy District of Andhra Pradesh only.
  20. That any dispute under the work order shall be subject to the jurisdiction of Courts situated at Rangareddy District, Andhra Pradesh.
  21. That the Contractor alone shall be vicariously liable for any acts, deeds or things of his employees including Casual, Temporary employees engaged by the Contractor.
  22. The Contractor shall always keep NRSC indemnified and harmless against any loss suffered for any acts, deeds, things committed by its employees.
  23. That the employees of the Contractor should adhere to the Standing Orders, shift timings, all security precautions, security checks etc. of NRSC. The Contractor is made known that NRSC is one of the sensitive institutions of Government of

- India and the Contractor alone shall be liable and responsible for the leakage of any confidential or secret information of NRSC.
24. Payment terms: The payments will be made by NRSC on presentation of bills on monthly basis. Monthly payments shall be released after arriving at the total 'mandays' worked by the force deployed by the contractor.
  25. The NRSC will be entitled to deduct all statutory dues from the bills including TDS under Income Tax, Labour Cess or any other duty or tax directed to be deducted from the bills by any statutory authority or Government i.e. State Government or Central Government.
  26. That the Contractor shall pay the required Income Tax, Sales Tax and Service Tax etc. to the concerned authorities from time to time.
  27. That NRSC shall have the absolute right to terminate the contract without assigning any reasons by giving 30 days notice.
  28. That in the event if the work is not completed within the stipulated period, if not extended by NRSC, the contract shall automatically stand terminated. After the termination of contract by efflux of time, the contractor shall not be entitled to claim any amount or amounts or interest on any work done after expiry of the contract. The time shall be the essence of contract.
  29. That the Contractor has taken into consideration the escalation of prices of all statutory dues payable while submitting the tender or quotation and hence no further amount or amounts shall become due and payable except what has been agreed upon by placing the work order even after there is escalation in prices of the building materials, labour cost, etc.
  30. That in the event the work is abandoned by the Contractor for any reason whatsoever before the expiry of the contract period the NRSC shall be entitled to issue a fresh tender after causing 15 days notice to the contractor to the address as furnished in the application. The posting of the letter under Registered Post with Acknowledgement due on the address furnished in the application by the Contractor shall be sufficient compliance of serving the notice. After the work is re-tendered if NRSC suffers any loss as per the estimation, the Contractor shall make good the loss on receiving the demand in writing within a period of 30 days from the date of receipt of such demand from NRSC. After the expiry of 30 days, the Contractor shall pay such amount due and payable with interest @ 24% per annum. In the event of abandonment of contract, the NRSC shall have the right of power of lien on any amount due and payable and if any loss suffered in re-tendering the NRSC shall have the right to set off out of the amount due and payable, the NRSC shall have the right to retain any equipment, machine etc. of the contractor till the re-tendering process is completed and the Contract is issued in favour of any new Contractor on re-tendering. The NRSC shall also have the right to auction the movables belonging to the Contractor to recover the loss suffered after re-tendering. The retention of equipment, tools, machineries etc of the Contractor shall be legal and it will be done as per the consent given under the terms and conditions which is accepted by the Contractor.
  31. Vendor should have minimum of 20 lakhs turnover in the previous two financial years, otherwise vendor will not be considered for the award of contract.
  32. Vendor should have at least two years of previous experience in execution of Image rectification / GIS database creation projects, otherwise vendor will not be considered for the award of contract.



**Annexure-IV : Requirements Table**

<p>1 Total numbers of persons proposed to ensure 2 shift operations for 365 days.   <small>Note: Minimum no. of employees should be 12 or more to take care of substantiating during leave/sickly or Rs. etc.</small></p>	
<p>2 Details of Human Resources to be provided as per the format enclosed(Annexure-III)</p>	<p align="center">Provided / Not Provided</p>
<p>3 EPF Number</p>	
<p>4 ESIC Number</p>	
<p>5 Latest ESI Challan to be provided</p>	
<p>6 Latest EPF Challan to be provided</p>	
<p>7 Sales Tax for last year to be provided</p>	
<p>8 Service Tax for last year to be provided</p>	
<p>9 CST/SGST number with validity date</p>	
<p>10 Item wise Compliance statement for Annexure-VI and VII</p>	
<p>11 Latest Income Tax Receipt</p>	
<p>12 Maximum gestation period for posting the personnel</p>	
<p>13 Wages structure breakup including VDA, PF, ESI etc.</p>	
<p>14 Whether complied with minimum wages act, specify</p>	
<p>1. G.O Number</p>	
<p>2. Scheduled Employment</p>	
<p>3. Category of personnel Proposed</p>	
<p>16 Present number of employees on the roll of the company</p>	

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**IMPORTANT INSTRUCTIONS FOR TWO PART BID**

This is a two part tender viz. Techno Commercial Bid and Price Bid. Hence quotation should be submitted in separate sealed covers superscribing "TENDER NO. PT-64/10-2011-000-842 DUE ON : 15.02.2012 (TECHNO COMMERCIAL BID) and TENDER NO. PT-64/10-2011-000-842 DUE ON : 15.02.2012 (PRICE BID) at 1500 Hrs. Both these sealed covers are to be put in a bigger cover having both Techno Commercial Bid and Price Bid. Covers should be submitted superscribing Tender No.PT-64/10-2011-000-842 Due on 15.02.2012. Only Techno-Commercial Bids will be opened on the date & time of tender opening i.e. on **15.02.2012 at 1500 hrs.**

The price bids of those tenderers whose Techno Commercial Bids are found to be meeting our specifications only will be opened on the date & time to be intimated later.

**SR. PURCHASE & STORES OFFICER.**

Note : a) Techno-Commercial Bid (Only technical details along with commercial terms and conditions should be mentioned. PRICE SHOULD NOT BE INDICATED)

and

b) Price Bid (Price should be indicated for the items quoted in the Techno-Commercial Bid)

ANNEXURE -VI TO PT-64/10-2011-000-654

*SPECIAL TERMS & CONDITIONS*

01. Quotation should be submitted in TWO PART as per the instructions in Annexure-II .
02. Quotation should be valid for a period of 90 days from the date of opening of the bids.
03. The Head P&S, NRSC reserves the right to accept or reject any quotation in full or part thereof without assigning any reason.
04. NRSC reserves the right to distribute the work to one or more tenderers simultaneously.
04. This Tender Document can also be downloaded from our website [www.nrsc.gov.in/www.isro.gov.in](http://www.nrsc.gov.in/www.isro.gov.in) and quotations submitted directly on or before the due date. However, such tenderers shall invariably enclosed to the quotation. Tender Fee of Rs. 220/- in the form of crossed Demand Draft drawn in favour of "Pay & Accounts Officer, NRSC, Hyderabad" on any scheduled nationalized bank, without which their offers will not be considered.

SR. PURCHASE & STORES OFFICER