

**Tender No. 55(1)2018-PUR/T-17 dated 24/07/2018
for Providing Geodetic Survey in Central India**

Consequent upon Pre-Bid Conference held on 06/08/2018, the following documents are attached.

1. Minutes of Pre-Bid conference and clarifications issued during the Pre-Bid Conference. (Annexure-I)
2. Attendance sheet of the firms attended the Pre-Bid Conference. (Annexure-II)
3. Revised Schedule of Rates (Annexure-III)
4. Revised BOQ (Annexure-IV)

- Controller of Stores & Purchase

Minutes of the Pre-Bid Conference
held on 06/08/2018 at 10.30 a.m at CSIR-NGRI, Hyderabad
to give clarifications for issues raised by firms against

**Tender No. 55(1)2018-PUR/T-17 dated 24/07/2018
for Providing Geodetic Survey in Central India**

The following attended the conference.

From Technical & Purchase Committee

Dr. Ajay Manglik, Ch. Sct.,	- Chairman
Dr. A.P. Singh, Ch. Sct.,	- I/O - Member
Dr. M. Ram Mohan, Pr. Sct.,	- Member
Dr. Abhey Ram Bansal, Pr. Sct.,	- Member
Sri. M. Tirupathi, Sr. T.O.	- Member
Sri. S. S. Choudhary, SPO	- Member
Mrs. P. Rajyalakshmi, F.A.O.	- Member
Sri.S.GNANAPRAKASAM, COSP	- Member - Convener

From Firms:

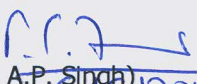
1. M/s. SATRA Infrastructure Management Services Pvt. Ltd., Secunderabad
2. M/s. Secon Pvt. Ltd., Bangalore
3. M/s. IIC Technologies Ltd., Hyderabad
4. M/s. Sumadhura Geomatics Pvt. Ltd., Hyderabad
5. M/s. SVV Geotech Pvt. Ltd., Hyderabad
6. M/s. Remote Sensing Instruments Pvt. Ltd., Hyderabad

Initially, brief introduction / presentation was given by Dr. A.P. Singh, about the scope of work to be carried out.

Subsequently, the clarifications were given to the issues raised by prospective bidders and understood by them. The clarifications given are stated in annexure-I

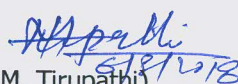
It was also clarified that,

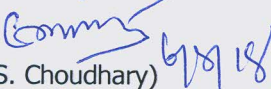
1. the schedule of rates to be submitted by bidders was reviewed by CSIR-NGRI. And considering the very minimum cost involved for movement of equipment and personnel mobilization and demobilization charges are not necessary. Hence, it is decided to drop these charges. Bidders to quote only for charges for survey stations. BOQ will be modified and hosted in etenders portal accordingly.
2. Considering the time bound project requirements it is not possible to extend the date for submission of tenders and mobilization period.


(Dr. A.P. Singh) 6/8/2018


(Dr. M. Ram Mohan) 6/8/2018


(Dr. Abhey Ram Bansal) 6/8/2018


(M. Tirupathi) 6/8/2018


(S. S. Choudhary) 6/8/18


(Mrs. P. Rajyalakshmi) 6/8/18


(S. GNANAPRAKASAM) 6/8/18


Dr. Ajay Manglik
Chairman

Pre-bid Clarifications issued during the Pre-bid Conference held on 06/08/2018

Sl. No.	Page No. / Clause No.	Description in Tender document	Clarification sought	CSIR-NGRI - Reply
I. M/s.Satra Infrastructure Management Services Pvt. Ltd., Secunderabad				
1.	Section 7, Area of operation and scope of work, Sub-clause 7.2, page 7	Approximate quantum of work is only for indicative purpose and the exact work volume may change depending on the exploration objectives and the results of the experimental work. No minimum quantum of work is guaranteed.	We understand that the scope pf work is for approximately 25,000 sq. kms. Kindly elaborate on "No minimum quantum of work is guaranteed". This factor will effect financial estimates.	<i>The total work is for 10,000 station points in 25,000 sq km area distributed in 37 Toposheets of 1:50,000 scale. Toposheet number may change.</i>
2	Terms of work (ToR/Scope pf work-Quantum of work, Page 11	10,000 stations over Mahakoshal formation extending in parts of Madhya Pradesh and Chhattisgarh	We understand, in the context of prescient of scope of work, 10000 stations means 10000 points to be measured using DGPS receivers. Please clarify.	<i>10000 stations means 10000 Second Order Control Points.....</i>
3	Terms of work (ToR/Scope pf work-Quantum of work, Page 11	The locations of First order Base stations (Controls Points) and Second Order Base stations (G-M Stations) are to be identified and which can be easily marked/located/accessed on the ground	a) Kindly let us know whether Control Points locations are approximately identified and fixed ? b) If not, who will finalise Control Points locations ? No. c)	<i>No. It may be finalised with the discussion of NGRI gravity field party.</i>
4	Terms of work (ToR/Scope pf work-Quantum of work, Page 11	Control Points should be on a leveled ground and at least 25 meters away from the reflective sources.	Is there any marking required at Control Point. If yes, please specify marking requirements.	<i>Yes... It has to be marked clearly on the ground and around for easy identification ...</i>
5	Terms of work (ToR/Scope pf work-Quantum of work, Page 12	The required number of Stations to be measured along the roads and tracks is decided in such a way that the station density should be at least one station per 2.5 sq. km. This criteria of Station	Request to provide topo sheets of project area for planning purpose.	<i>Toposheets may be procured directly from the Survey of India, Jabalpur. We will provide a couple of GTS Bench Marks of Survey of India</i>

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		density in each toposheet has to be adhered strictly		
6	Schedule of Rates to be quoted by Bidder - Geodetic Survey: Page - 14	NOTE: Payment will be as per approved and accepted stations. Bidders are to note that all charges against which the unit's rate have been asked, shall be payable only depending upon utilization in actual. The quantities indicated are tentative and for Evaluation only. No payment whatsoever other than those indicated above shall be paid.	Kindly elaborate "payable only deepening upon utilization in actual	<i>The payment will be made ONLY for secondary accepted points.</i>
7.	Terms and Mode of payment - Payment procedure, Point 1 Page 17	Successful bidder shall prepare invoices for each day in 2 copies. The successful bidder at the end of each month, should prepare the invoice for the actual work done during the month and enclose the copies of all production invoices duly certified by NGRI Party Chief.	The payment will be made on completion of 1000 stations as per mode pf payment clause ii, page 17. In such case preparation of invoice for each day and at the end of each month will be cumbersome and prepared invoices attract statutory taxes. Please clarify	<i>Only one invoice to be prepared for 1000 accepted secondary points, with 10% repeat points, supported by daily production sheets.</i>
9.	General	Verification and acceptance procedure	Request to provide deliverables verification and acceptance procedure including defined timelines.	<i>Quality will be checked in the field as well as at the headquarter following standard procedures.</i>
9.	General	Bid submission date	Request to provide at least 15 working days time for bid submission after publication of pre-bid clarifications.	<i>No change can be made considering our time bound project requirements.</i>
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II. M/s. IIC Technologies, Hyderabad				
1	Terms of Reference work /Scope of work-of work, Page 11, Bullet No. 3 Establishment Base Stations (Control points)	First order control points The minimum common observation time for these Control Points should be 04 hours and is to be connected to the nearest SOI Benchmarks/GCP by making simultaneous observations preferably in network mode.	Request NGRI to clarify that which observation method is to be followed, Braced quadrilateral or simple triangle method in this first order control point data capturing Kindly Confirm ?	<i>For the First Order Control Points the Surveyor has to run the Base and the Rover simultaneously for ~4 hrs. For second order control points it would be ~15 minutes to arrive at the desired accuracy.</i>
2.	Terms of Reference work /Scope of work-of work, Page 11, Bullet No. 7 Establishment Base Stations (Control points)	Easily identifiable and accessible permanent landmarks are to be selected in the vicinity of stations on topo sheets and in the survey area.	Please confirm hat whether Topo sheets and Survey of India (SOI) control points would be provided by CSIR-NGRI or not ?	<i>Toposheets may be procured directly from the Survey of India, Jabalpur. We will provide a couple of GTS Bench Marks of Survey of India.</i>
3.	Terms of Reference work /Scope of work-of work, Page 13 Deliverables.	Deliverables	Request to NGRI kindly clarify that what are the details detailed in drawing.	<i>A neat sketch map with brief description of the station, Lat and Long etc....</i>
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III. M/s. Secon Private Ltd., Bangalore

Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
		4.1 The Bidder as a Company / Joint venture Company should have proven capabilities in execution of Geodetic Survey including: a) "The Bidder should be an ISO 9001:2015 certified company for providing the Geodetic services. Copy of Certification must be furnished"	Since many of the organizations are under the process of migrating from ISO 9001:2008 to ISO 9001: 2015. SECON has successfully completed the Audit for ISO 9001: 2015 standard and has been recommended for Certification. However, we are still not in receipt of ISO 9001: 2015 Certificate. Also, Geodetic Services is a very specific terminology which is considered included under Topographical Survey. Hence, request NGRI to kindly consider and amend the criteria as under: “The Bidder should be an ISO 9001: 2008 / 2015 certified company for providing the Geodetic services / Processing of Data for Topographic Survey. Copy of Certification must be furnished”	No change can be made. Bidder must have ISO certification as stated in the tender document.
2.	12. GENERAL CONDITIONS Page 9	12. Area of work falls under Madhya Pradesh and Chhattisgarh. However as investigations will be carried out by the side of Reserve Forest area bidder should take all precautions so that no environmental damage is caused due to their activity. It should be noted that Forest Department will not permit cutting of trees.	There are security concerns in few parts of Chhattisgarh. NGRI is requested to kindly provide adequate security to the successful bidder in advance.	It is NOT practicable for NGRI to do that. The successful bidder has to take care of themselves.

Ajit Kumar
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PR. Ramesh

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Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
3.	QUANTUM OF WORK, Page 11	TERMS OF REFERENCE / SCOPE OF WORK "One of the important considerations in G-M survey is the levelling, location and spacing of the stations...."	NGRI is requested to clarify whether Spirit Leveling is to be undertaken as a part of the scope of work for the project. If yes, specifications for Leveling may be provided.	<i>It is clearly mentioned that is to be done by the DGPS.</i>
4.	Establishment of Base Stations (Control Points) Page 11	First order control points: • The minimum common observation time for these Control Points should be 04 hours and is to be connected to the nearest SOI Benchmarks/ GCP by making simultaneous observations preferably in network mode.	It is understood that connection is to be made only by simultaneous observations with Sol BMs and not by Spirit Leveling. NGRI is requested to confirm. NGRI is also requested to provide location details, Coordinates and MSL values of Sol BM and NGCPs in the Project Area of Interest.	<i>NGRI will provide a couple of NGCPs either from within area if available or from an adjoining area.</i>
5.	Second order control points (G-M Stations), Page 13	• Both the elevation values (Ellipsoidal and MSL) should be kept in the database with the remark stating the procedure for converting the ellipsoidal height to MSL.	It is understood that Ellipsoidal elevation values duly converted to MSL are to be retained in the database and no separate Spirit Leveling is to be undertaken to derive MSL values. NGRI is requested to confirm.	<i>It is clearly mentioned that is to be done by the DGPS.</i>
6.	Second order control points (G-M Stations), Page 13	The Contractor shall deploy minimum five survey parties along with all logistics and equipment to carry out the Survey and deliver the outputs within the following time-frame:	It is understood that the contractor is to deploy 05 Survey Crew/ Teams with all logistics and equipment. NGRI is requested to confirm.	<i>It is a matter of nomenclature. You may call it Survey Party/Team or Crew. But we need minimum five team working simultaneously</i>

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Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
7.	DELIVERABLES: Page 13		Clarity is required with regard to the number of copies and the mode of each deliverable in soft / hard copy.	Minimum three copies (soft as well as hard) of Complete Report to be submitted. It should include Methodology used for the first order control points and second order control points, Error Distribution, Data Processing procedure, Final location and elevation values etc.
8.	1.4 MOBILISATION PERIOD : Page 16	Mobilisation means the deployment of requisite crew & equipment, establishment of camp by the successful bidder. Mobilisation period allowed is maximum 15 days from the date of award of work....	Mobilisation time and other requirements are stringent. It is possible to mobilise as per the tender requirements only if the position of proposed stations are precisely identified in advance before induction of crew. There should be one month lead between monumentation and observation time to take care of settlement etc. NGRI is requested to kindly consider and confirm.	No change can be made considering our time bound project requirements.
9.	3 TERMS AND MODE OF PAYMENT Page 17	Payment will be made as follows: i. Mobilization Charges - After completion of mobilization and on certification by authorized NGRI Official.	NGRI is requested to consider and make the payment of Mobilisation charges, quoted by the Successful bidder within one week of award of work and thereafter 20 days time may be provided after the payment of Mobilisation charges to mobilise as per the Tender requirements.	In view of very small instrument there will not be any mobilization and demobilisation charges. Tender document -Schedule of Rate / BOQ will be amended accordingly. No change in mobilization period can be made considering our time bound

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Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
				project requirements
10.	-	Monumentation of GT Stations / BMs	It may be noted that the effort for establishing stations will go waste unless and until the GT Stations and BMs are established on stable foundation without settlement, such as rock-in-situ and special pillars below and above ground as per specifications. NGRI is requested to clarify requirement of monumentation, if any.	Well marked point which should be easily accessible from all direction and on firm ground is sufficient for us. Monumentation is not required.
11.	-	General	NGRI is requested to extend and provide at least 2 weeks for the bid submission from the date of issue of clarifications to enable Bidders submit a comprehensive proposal.	Already enough time is given... No change can be made considering our time bound project requirements.
IV. M/s. Gaveshana Geosciences Pvt. Ltd., New Delhi				
1.	General		We understand that the term "Geodetic Survey" also means the following types of surveys using DGPS / Total Station or any modern surveying techniques to establish x, y, z coordinates of surface points	Geodetic survey here means surveying using DGPS only to establish x, y, and z coordinates of surface points. In the present case it's application is different.

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Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
			(a) Topographic Survey for 2D/3D Seismic Lines (b) Detailed Survey for Transmission Lines / Pipe Lines © Route Survey for Roads	
2	Clause 4.0 Sub-Clause 4.1 d & e in ITB and also in BEC		We understand that the term "DGPS Based Surveying and mapping" means survey and mapping conducted (a) Either using DGPS in kinetic mode for all points Or, using DGPS in static mode for control points and using Total Station for other points where DGPS connectivity is a problem.	Static Mode...
3	Clause 4.0 Sub-Clause 4.1 d in ITB and also in BEC		If a bidder possesses the following DGPS based surveying experience, will such type of works qualify for bidding for this tender? Kindly clarify. a) Topographic Survey and mapping for Water Storage Reservoirs (Mapping in 25 m x 25 m grid) b) Topographic Survey of 2D Seismic Lines [Station Points every 50 m interval]	Mentioned Survey areas are too less. Hence can't qualify.

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S. L. Venkatesh
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Ajai Babu

P. Banu Raju
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Prakash Kumar
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Ajay Babu
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Sl. No.	Page / section no. in the RFP	Clause/Point	Clarification Required	
			c) Detail Survey of 110 / 200 / 400 kV Transmission Lines [Mapping of route every 20 m interval] d) Topographic Survey at various airports [Mapping in 10 m x 10 m grid]	
4	Clause 4.0 Sub-Clause 4.1 e in ITB and also in BEC		This criterion sounds too stringent for many participants. It is requested that a word "OR" may be inserted between Clauses 4.1d and 4.1e.	Eligibility Criteria is fixed to get experienced bidder for executing the tendered work. Hence, it can't be changed.
5	Clause 12.16 of ITB and also 1.4 of GCC		Mobilization Period may be kept as 30 days for each phase of the work instead of 15 days.	No change can be made considering our time bound project requirements.

N. J.
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J. L.
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P. R.
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A. S.
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A. S.
6/8/2018



CSIR - NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
(Council of Scientific & Industrial Research)
UPPAL ROAD, HYDERABAD-500 007, Telangana, INDIA

ATTENDANCE SHEET

**Pre-Bid Conference for
Providing Geodetic Survey in Central India
against Tender No. Tender No.55(1)2018-Pur/T-17 Dated July 24, 2018**

The following Representatives have attended for the Pre-bid Conference held on 06/08/2018 – 10.30 a.m. at CSIR-NGRI, Uppal Road, Hyderabad.

Sl. No.	Name & Designation	Company Name & Address	Contact Telephone No. with e-mail
1.	HAPPY NALLI GENERAL MANAGER	SATRA S P Road, Secunderabad	9441520888 HAPPYN@SATRAGROUP.IN
2.	CARIAPPA M.D.	SECON PVT. LTD. WHITEFIELD, B'LORE	9880799889. Cariappa@m.d@secon.in
3.	BOSE	SVV Geotee	91010801081 bd@svvgeotech.com
4.	Srinivas Chary	- //	- //
5.	S Rajendur Rao	Sumadhura Geomatics Pvt Ltd.	Rajendur@ sumadhura.com
6.	Purna Chandna Padhy	7337363562 IIC Technologies Ltd.	Purna.chandna.Padhy@ iic-technologies.com
7.	Harish Joshi	Remote Sensing Institute Hd.	9948249940 ha_joshi_5248@yaho co.in
8.	G Shobha Chary	SATRA	9010083099 Shobha.g.@satragroup
9.	Sasank Sai Sree-M	Sumadhura Geomatics Pvt Ltd.	field survey @ Sumadhura 9963905983 -com

SCHEDULE OF RATES TO BE QUOTED BY THE BIDDER

Geodetic Suvey:

ITEM	UNIT	Total Qty	Rate (UNIT PRICE) INR	TOTAL PRICE INR
Geodetic Survey	Per Station	10,000 Stations		
GST applicable				
Total (in figures and words)				

NOTE:

Payment will be as per approved and accepted stations.

Bidders are to note that all charges against which the unit's rate have been asked, shall be payable only depending upon utilization in actual. The quantities indicated are tentative and for Evaluation only. No payment whatsoever other than those indicated above shall be paid.

(Signature of Bidder)

Validate

Print

Help

Item Wise BoQ

Tender Inviting Authority: Director CSIR-NGRI

Name of Work: Geodetic Survey

Contract No: 55(1)2018-Pur/T-17

Name of the Bidder/ Bidding Firm / Company :					
PRICE SCHE (DOMESTIC TENDERS - RATES ARE TC (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant colour					
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency
1	2	3	4	5	12
1	Geodetic Survey				
1.01	Geodetic Survey	item1	10000.00	per Station	INR
Total in Figures					
Quoted Rate in Words					

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nns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST Amount in INR Rs. P	TOTAL AMOUNT Without Taxes col (13) = (4) x (7) in Rs. P	TOTAL AMOUNT With Taxes col (14) = sum (8) to (13) in Rs. P	TOTAL AMOUNT In Words
7	9	13	14	15
		0.00	0.00	INR Zero Only
		0.00	0.00	INR Zero Only
INR Zero Only				