

Pre-Bid Conference
against Tender No. 57(18)2018-Pur/T-36 Dated 20/09/2018
for Supply, Installation and Commissioning of Strong Motion Accelerograph

Consequent upon Pre-Bid Conference held on 05/10/2018, 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)

- Controller of Stores & Purchase

Minutes of Pre-Bid Conference
held on 05/10/2018 at 10.30 a.m at CSIR-NGRI, Hyderabad
to give clarifications for issues raised by firms against

**Tender No. 57(18)2018-Pur/T-36 Dated 20/09/2018
For Supply, Installation and Commissioning of Strong Motion Accelerograph**

The following attended the conference.

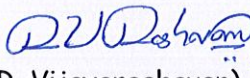
From Technical & Purchase Committee

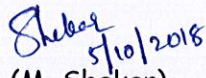
Dr. HVS Satyanarayana, Ch. Sct.,	- Chairman
Sri. R. Vijayaraghavan, Pr. Sct.,	- I.O. Member
Sri. M. Tirupathi, Sr. T.O.-3	- Member
Dr. M. Shekar, Sr. Sct.,	- Member
Mrs. P. Rajyalakshmi, F.A.O.	- Member
Sri. S.S. Choudhary, S.P.O.	- Member
Sri.S.Gnanaprakasam, COSP	- Member - Convener

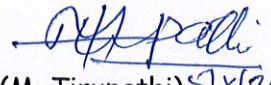
From Firms:

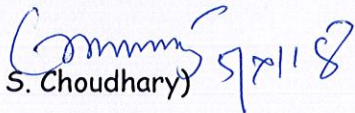
1. M/s. Chrisvin Geomet Services Pvt. Ltd., Chennai
Represented by Mr. M. Winston, CEO
2. M/s. Toshniwal Bros (Delhi) Pvt. Ltd., Secunderabad
Represented by Mr.Y. Radha Krishna, Divisional Manager
3. M/s. Pinnacle Geosystems, New Delhi
Represented By Mr. Vinod Tamar, Managing Director

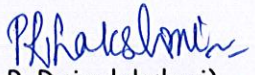
The TPC had gone through the clarifications sought by the firms at Sl.No. 2 and 3 vide their emails dated 03/10/2018. The TPC has given the clarifications to the points raised by the firm at Sl.No.2 and 3. The points raised and clarification given are stated in Annexure.

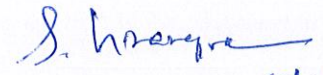

(R. Vijayaraghavan) 5/10/2018


(M. Shekar) 5/10/2018


(M. Tirupathi) 5/10/2018


(S. S. Choudhary) 5/10/18


(Mrs. P. Rajyalakshmi)
5/10/18


(S.Gnanaprakasam) 5/10/18


(Dr. HVS Satyanarayana)
Chairman

**Pre-bid Clarifications sought & reply issued during the Pre-bid Conference held
on 05.10.2018**

Sl. No.	Page No. / Clause No.	Description in Tender document	Clarification sought	CSIR-NGRI Reply
M/s.TrimbleEurope B.V.				
1		Specification : Full scale Range user selectable Current : $\pm 5g$ $\pm 1g$ $\pm 2g$ $\pm 4g$	Requested: Full scale Range $\pm 4g$ only Requested: ≥ 150 Hz	1. Please note the specifications given in the tender document is <i>Full Scale Range: Software selectable $\pm 4g$, $\pm 2g$ and $\pm 1g$</i> It is not <i>Full scale Range user selectable $\pm 5g$ $\pm 1g$ $\pm 2g$ $\pm 4g$</i> as mentioned in their letter TRIM/01/SMHR/031018 dated 3 rd October 2018. The choice of full scale range depends on the expected maximum ground acceleration level at the installation site or structure. Reducing the full scale range at the sites where the expected maximum ground acceleration levels are less, improves the sensitivity of the accelerometer and hence the ability to detect the smaller events. The strong motion accelerographs shall be used under different field conditions over the period of time. The option to select the full scale range is required and it cannot be fixed at $\pm 4g$ only.
2		Specification : Frequency response Current : flat (within $\pm 3dB$) to ground acceleration in the range of DC to 200 Hz.	We request to go for Full scale range $\pm 4g$ only. The reason for this is that we would like to have a maximum dynamic range acquiring the data at full scale, Once the user reduces the full scale to either $\pm 2g$ or $\pm 1g$, that they amplify the noise signal and therefor reduce the dynamic range. So the specification applies to a full scale output. If the customer chooses, for example, either $\pm 2g$ or $\pm 1g$ full scale signal output, then the dynamic range of 155 dB or more is not applicable anymore.	

D. D. Daghav
5/10/2018

Shubal
05/10/2018

Pathan
5/10/2018

D. D. Daghav
5/10

				Full scale range should be software selectable $\pm 4g$, $\pm 2g$ and $\pm 1g$ <u>Any amendment not acceptable</u> 2. Frequency response flat (within $\pm 3dB$) to ground acceleration in the range of DC to 200 Hz. Restricting the frequency response up to 150Hz is not acceptable. <u>Any amendment not acceptable</u>
M/s.PinnacleGeosystems, Delhi				
1	B 7	As per tender "System response: $\pm 3dB$ flat from DC to Nyquist frequency"	The system response cannot be within $\pm 3dB$ to Nyquist frequency, but to 80% of Nyquist frequency (by definition, the goal is to have at least 120-130 dB attenuation at Nyquist frequency, to avoid aliasing. So it should be read as 80% of the Nyquist Frequency.	This is acceptable. The specification B. 7. is amended as follows. <i>System response: $\pm 3dB$ flat from DC to 80% of Nyquist frequency</i>
2	B20 ii	As per the tender "Communication: i. Ethernet Interface for real time telemetry ii. Multicast support iii. Ethernet port, USB port should be provided"	What we understand is it is same as to transmit the data to Multiple receivers. So it should be read as Multiple Receivers.	Multicast support refers to the data transmission from accelerograph unit at the remote seismic station to multiple central recording stations simultaneously. It gives the same meaning as reception at the multiple receivers simultaneously. <u>Amendment not required</u>
3	E.3.	As per the tender The Bidder should provide the power consumption details of the Accelerometer. Data Acquisition System and endurance of the internal batteries supplied with the unit.	Item E.3: ... "Endurance of the internal batteries supplied with the unit" has no meaning as it is clearly mentioned in the point no. E-10 that bidder should give the estimation of the batteries and Solar Panel to run the unit for one	The accelerographs shall be operated with external batteries only and internal batteries are not required. The estimation of capacity of external batteries and solar panels to operate the accelerograph unit with one month power autonomy should be provided under requirement E.10.

			month's so we will give the estimation of the batteries and solar panels to run the unit for one month. So it should be read as supplier should give the Endurance of the batteries and solar panel to run the unit for one month.	The requirement E.3 is amended as follows. <i>The bidder should provide the power consumption details of the Accelerometer and Data Acquisition System.</i>
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DD Sharma
5/10/2018

Shobal
05/10/2018

Appalini
5/10/2018

W. S. G. S. S. S.



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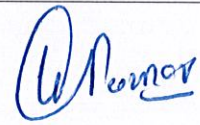
(Council of Scientific & Industrial Research)

UPPAL ROAD, HYDERABAD-500 007, Telangana, INDIA

ATTENDANCE SHEET

Pre-Bid Conference for
Supply, Installation and Commissioning of Strong Motion Accelerograph
against Tender No. 57(18)2018-Pur/T-36 Dated 20/09/2018

The following Representatives have attended for the Pre-bid Conference held on
05/10/2018 - 10.30 a.m. at CSIR-NGRI, Uppal Road, Hyderabad.

Sl. No.	Company Name & Address	Representative's Name, Designation & Contact Telephone No. with e-mail	Signature of the Representative who attended pre-bid
01	CHRISVIN Geopond Services Pvt Ltd., Chennai - 600 002	M. VINSTON, CEO 9840966116. vinston@chrisvin.in	
02	Pinnacle Geosystems New Delhi	Mr. Vinod Kumar Managing Director 9811324797 vinoa@pinnaclegeosystems.com	
03	Y. Radhe Krishna Toshniwal Bros (Delhi) Pvt Ltd N. Delhi	Y. Radhe Krishna Divisional Manager 98494 40150 tbdsec@gmail.com	