



सीएसआईआर - राष्ट्रीय भूभौतिकीय अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

उप्पल रोड, हैदराबाद - 500 007, तेलंगाणा, भारत.

CSIR - NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)

Uppal Road, Hyderabad - 500 007, Telangana, INDIA.



No. 57(51)2020-PUR/T-45

03/03/2021

CORRIGENDUM

Sub: Extension of due date and Corrigendum - Regarding

Kindly refer to this office Tender No. 57(51)2020-PUR/T-45 dated 09/02/2021 for supply of Geophones and Digital Cables etc., The last date for submission of bid is extended to **15/03/2021** - 14.30 hrs. (IST) and the date of opening of the bid will be **16/03/2021** - 14.30 hrs. (IST). As per the queries raised by some prospective bidders and in accordance with the tender document Clause No. 1.7, Certain clarifications / corrections are being issued as per the Annexure enclosed. Accordingly, Prospective bidders may please note and submit their bid accordingly.

- Stores & Purchase Officer

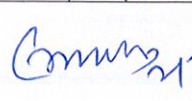
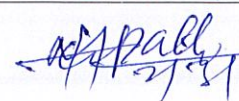
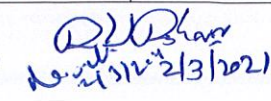
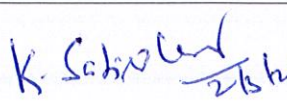
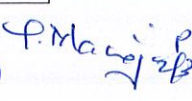
Clarifications sought against tender No. 57(51)2020-PUR/T-45 dated 09/02/2021
for supply of Geophone and Digital Cable

Clarifications sought by M/s. HGS (India) Ltd., New Delhi

	Clarifications Sought	CSIR-NGRI response
1.	Serial No.1 CAT-5 digital Interface Cable 130M. It states that weight should be ≤ 8 Kg. However, this is the weight of the cable per 100M. Since the requirement is for 130M cable the weight of the cable including end connectors should be 11.2 Kg.	Weight of the cables is only the option not a mandatory, however ruggedness is important to sustain in highly harsh environments. less than 15 kg is acceptable for easy handling of cables in the field.
2.	Serial No. 2 CAT-5 digital interface Cable 60M. It states that weight should be ≤ 4 Kg. However, the weight of the cable including end connectors is 5.5Kg	
3.	Serial No. 5. 4.5 Hz Geophone Clean Responses to 160Hz. We do not know of any 4.5Hz geophone with a clean response of 160Hz. The best response for a 4.5Hz geophone is 140 Hz. This may kindly be amended.	It is not clean response, this may be read as response up to 160Hz..
4.	Serial No. 7. Geophone Tester frequency 1-150Hz; Resolution 0.0Hz; damping up to 0.9; sensitivity 100V/M/s. We believe that there is a typographical error on two accounts, the display resolution cannot be 0, it is 0.01Hz; the damping is up to 0.85 and not 0.9. Kindly amend.	We agree it a typographical error, we read as 0.01 Hz resolution and 0.85 damping

Clarifications sought by M/s. Nina Hands, Nashik

Point no 1 to 7 Technical specification not giving clear information of require material. If you provide & Photos of required material from pointy no,1 to 7 it will be help us to understand the mentioned requirement. Point No1 : Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change ? Point No 2 : Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change ? Point No 3 : Connector of Cable of both end need clarification with photo's / drawings. Provide the Seismograph connector Drawing/Pin layout diagram. Point No 4 : Connector of Cable of both end need clarification with photo's / drawings. Provide the Seismograph connector Drawing/Pin layout diagram. Point No 5 : 4.5 Hz Geophone clean response to 160 Hz, 0.6 Hz, 0.6 V/m/sec	Required Photo graphs enclosed.
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against	5. what you require 4.5 Geophone ? it is single geophone ? what type of connector ? what is length of connector cable? is it vertical geophone with spike ? or it is only a geophone sensor element with shunt install on it ? kindly provide the photo of this requirement to better understand the requirement. Point No 6 : Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change ?	against tender
	Note: The supplied above items from any firm should be make demonstration at NGRI campus and compatible with 24 Channel seismic geode, U.S.A make for seismic data acquisition : our question: Demonstration at NGRI campus and compatible with 24 Channel seismic geode, U.S.A make for seismic data acquisition will be done on the time of installation & commissioning of supplied equipment.	Technical Evaluation: - The Quoted model a) Should meet the technical specifications as stated in Chapter 4. b) The samples of the quoted item should be delivered to CSIR-NGRI under intimation to the SPO, CSIR-NGRI. The samples should reach CSIR-NGRI before due date of the tender/Bid submission for technical evaluation along with the quoted specification to determine the compatibility with existing system as detailed under chapter 4. In case of non-receipt of the samples within due date and time, the bid will be deemed to be incomplete and disqualified for further evaluation. The bids that meet both (a) & (b) above will technically qualify for further commercial evaluation.

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K. Sankar Reddy
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T. M. S. P
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Point No1: Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change?

Point No 2: Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change?

Reply:

Digital interface cable with 60& 130 m length

The supplied digital interface cable will be used to interconnect two Geodes and the end connector should be mating with 24-Channel Geode supplied by Geometrics, USA. The cable should be tinned copper and twisted pairs to reduce the noise and make firm contact. The connector, pin & wiring details as shown in below Figure 1. If yellow colour outer jacket is not available, any colour is acceptable to us. Weight of cable is not compulsion, but ruggedness of cable is more important.

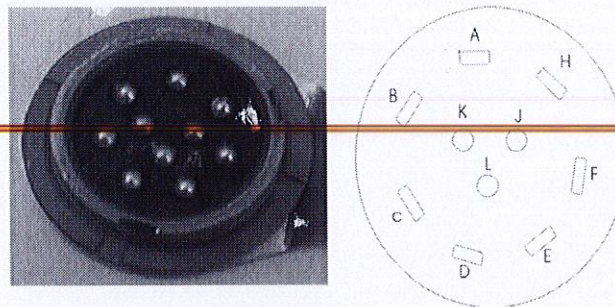


Fig 1. Digital interface cable end connector & wiring details

Table 1. Wiring Details		
Pin		Use
J	K	TX+ to RX+
K	J	RX+ to TX+
H	B	TX- to RX-
B	H	RX- to TX-
C	C	Remote Power-up+
D	D	Trigger A
E	E	Trigger B
F	F	Power-up
A	L	N.C

Point No. 3: Connector of Cable of both end need clarification with photo's / drawings.
Provide the Seismograph connector Drawing/Pin layout diagram.

Point No 4: Connector of Cable of both end need clarification with photo's / drawings.
Provide the Seismograph Connector Drawing/Pin layout diagram

Reply:

24 channels take out cable with 2m and 5m spacing.

(a) For compatibility of end connectors:

The 24 channel Geode uses 61-pin Bendix male connector. The supplied seismic spread cable end connector should have compatible female connector and it should be firm contact with the Geode (Figure 2). Weight of cable is not compulsion, but ruggedness of cable is more important.

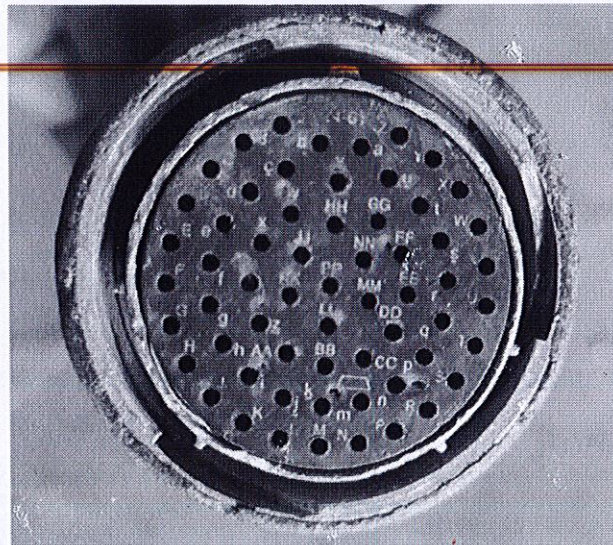
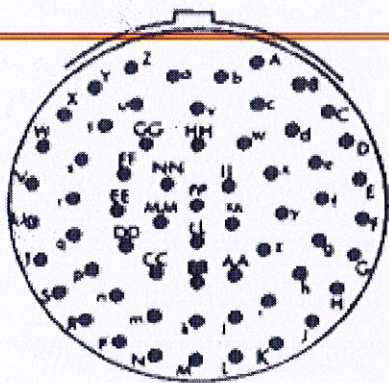


Fig 2 Seismic cable end conector

Wiring diagram of cable end (A):

Table 1 Wiring diagram of 24 Channel seismic takeout cable		
Channel	Pins	Notes
1	z/AA	Farthest Geophone takeout
2	x/y	
3	v/w	
4	t/u	
5	r/s	
6	p/q	
7	m/n	

Point No 5: 4.5 Hz Geophone clean response to 160 Hz, 0.6 Hz, 0.6 V/m/sec sensitivity : provide details about the point no 5. what you require 4.5 Geophone ? it is single geophone ? what type of connector ? what is length of connector cable? is it vertical geophone with spike ? or it is only a geophone sensor element with shunt install on it ? kindly provide the photo of this requirement to better understand the requirement.

Reply:

It is vertical single spike 4.5Hz Geophone output connector is a crocodile clips (big) in size with red and black color indication also 0.5m cable length. Further, it should have proper external casing with vertical spike for good ground coupling etc. also it should withstand in harsh environments.

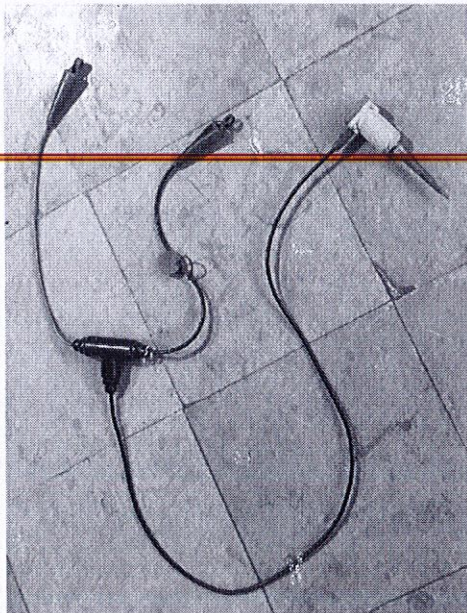
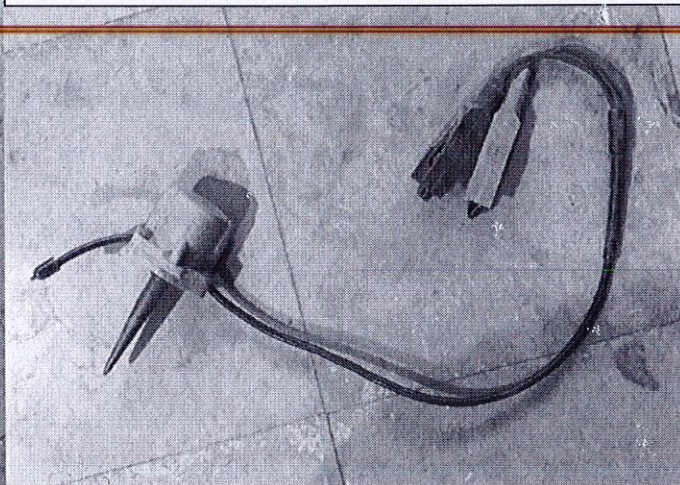


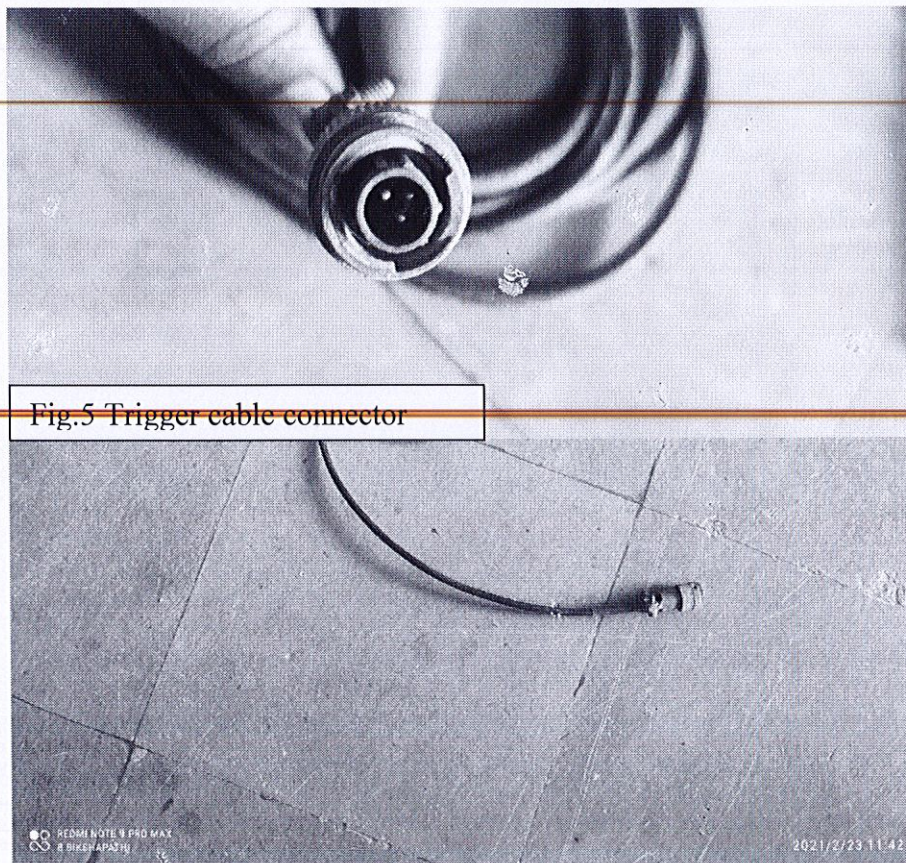
Fig 4. 4.5 Hz geophone with crocodile connectors



Point No 6 : Connector of Cable of both end need clarification with photo's / drawings. The color mentioned can be change?

Reply:

It is a twisted pair with outer shield to carry the trigger signal to Geode acquisition system as shown in below Figure 5



7. Demonstration at NGRI campus and compatible with 24 Channel seismic geode, U.S.A make for seismic data acquisition will be done on the time of installation & commissioning of supplied equipment.