

Minutes of the Meeting

Pre-bid meeting in presence of technical committee Venue: Prithvi Bhawan on 19.06.2017 at 11:30 Hours

Seismic Hazard and Risk Assessment Division National Centre for Seismology Ministry of Earth Sciences

Experts of “Technical Committee” constituted under the chair of Prof. S. K. Nath, Indian Institute of Technology (IIT), Kharagpur by the competent authority of Ministry of Earth Sciences (MoES) (**Annexure-I**) for assessing technical details, including evaluation of several sets of essential parameters for smooth procurement of services regarding the project entitled “the Project “Seismic Microzonation of 30-Cities in India” of Seismic Hazard and Risk Assessment (SHRA) Division of National Centre for Seismology (NCS), MoES, met in its first meeting held at Prithvi Bhawan, on 19th June 2017 at 11:30 Hrs.

As planned, pre-bid meeting was organized on the same day (19.06.2017; 11:30 Hrs) to discuss pertinent issues raised by the potential bidders who attended the meeting in presence of technical committee for seeking satisfactory explanations of their queries as per clauses described in the uploaded RFP / Bid- documents to the Central Procurement Portal (CPP) on 18th May 2017.

Besides, Prof. S. K. Nath, Chairman and Dr. O. P. Mishra, Scientist & Head, SHRA Division, NCS-MoES as the convenor of the technical committee, its 3-expert members: Dr. Srinagesh, Chief Scientist, National Geophysical Research Institute (NGRI), Hyderabad; Dr. Sumer Chopra, Scientist / Director, Institute of Seismological Research (ISR), Gandhinagar; Dr. O. P. Singh, Sr. Geophysicist, Geological Survey of India, CHQ, Kolkata attended the meeting. Other two members of the Committee, Dr. V. K. Gahlaut, Director, NCS-MoES, New Delhi; and Prof. Chandan Ghosh, Professor & Head, Geohazards, National Institute of Disaster Management (NIDM), New Delhi could not attend the meeting because of their prior commitments elsewhere in India. Shri, H. P. Shukla, Scientist and Head (GA), NCS-MoES attended the meeting as an invitee for furnishing feedbacks on the procedural guidelines to the potential bidders on the floated tender for the purpose. Dr. S. K. Prajapati, Scientist, NCS-MoES along with his colleagues, Dr. H. S. Sisodia, Dr. Sunil Rohilla, and Shri Brijesh Jaiswal attended the meeting (**Annexure-II**) and contributed towards conduction of meeting, including preparing feedbacks and gathering questionnaire from 20-numbers of potential bidders from different companies of India who attended the said meeting (**Annexure III**).

The proceedings of the meeting started with a brief introduction of all participants in the meeting in which Dr. O. P. Mishra, convener of the meeting introduced expert members of the technical committee to the potential bidders.

Prof. Nath, Chairman of the technical evaluation committee welcomed all the participants and provided a deep insight into the origin and purpose of the project for which tender has been floated to identify most suitable vendors on competitive two tier bid processes. A very lucid and conceptual introduction on Seismic microzonation so far carried out in India was highlighted by the chairman with special emphasis on the nature of work and quality of services to be procured through the floated bid on CPP. Chairman stressed up on the fact that MoES has already published two classical reference books on the subject of interest: (a) Seismic Microzonation Handbook, 2011 (518p); (b) Seismic Microzonation Manual, 2011 (233p), which would help understand bidders about several sets of parameters and modalities of conducting field and laboratory investigations for the site. Previously published reports on Seismic Microzonation for different cities, such as Sikkim, Jabalpur, Bangalore, Ahmedabad, Dehradun, Gandhidham, NCR-Delhi, and Kokata were also mentioned by the Chairman and suggested bidders to go through some of these reports to get better clarity of technical and scientific parameters for geotechnical and geophysical investigations under the project “Seismic Microzonation of 30-cities in India”.

Dr. D. Srinagesh, member of the technical committee, highlighted the significance of the Earthquake Hazard Mitigation and nature of related work to be procured through the floated tender invitation and he suggested for consulting the earlier published reports on seismic microzonation by different institutions carefully. Dr. Srinagesh stressed up on issue of the quality work to be carried out as per the invited tender that should be strictly followed as per the guidelines given in the bid document.

Dr. Sumer Chopra, Member of the Committee, indicated that the prepared bid document is very comprehensive and contained several clauses on different aspects which were appropriately discussed. He advised potential bidders to go through the bid document carefully to get answers of their queries on their own. He demonstrated several sections, which were well explained when potential bidders got satisfied on getting answers. He focussed upon the issue of DHT and SPT and clarified that for DHT, separate boreholes would be required of 100 m depth and it should be 10% of total boreholes locations as per the bid document that clearly demonstrated the argument on importance of Geophysical and Geotechnical investigation for Seismic Microzonation of 30-cities.

Dr O. P Singh, Member of the committee focussed upon the earlier works carried out by Geological Survey of India to generate huge amount of data on site amplification for different Indian cities that are being shared to MoES as per the MoU signed between GSI and MoES to avoid the duplicate effort in generating same set of data. He stressed that a detailed investigations on the floated tender is required for comprehensive characterization of sub-surface formations based on integration of the diversified data set consisted of geological, geophysical, seismological, and geotechnical outputs for the city under investigation.

Dr. Vineet Gahalaut, Director, NCS-MoES & Member, in absence advised Member convenor for following the entire processes as per the guidelines given in the bid / RFP document.

Shri, H. P. Shukla suggested the attending potential bidders to follow the procedural details for preparing their bids that should strictly based on the guidelines and format mentioned in the uploaded RFP / Bid document.

Dr. O P Mishra, Convener of the Meeting highlighted the recently completed Seismic Microzonation report for Kolkata city available on the website of MoES for reference to potential bidders. He clarified several queries on diversified issues to the satisfaction to the potential bidders during the meeting. It was indicated during the meeting that Seismic Microzonation of Srinagar (J&K), is under investigation by the University of Kashmir in the project mode sponsored by PAMC (Geosciences), MoES. Therefore, he informed to the committee that there exist a total of 28-Cities and are available for the current tender bid.

A circulation of a copy of corrigendum in respect of earlier uploaded “Integrity Pact” along with the bid document (Page 34; Annexure-IV) meant for department / Ministry, Government of India was made to all potential bidders who attended the meeting. The same was uploaded on CPP website dated 16.06.2017 for bidding purposes.

The committee discussed a number of queries from potential bidders sent to NCS-MoES through E-mails up to the last date of seeking clarifications by bidders (15.06.2017 at 17:30 Hours) [**Annexure-IV**]. Several new queries were also raised by different bidders during meeting and those were answered by the committee to their satisfactions on 19.06.2017.

There were stimulating discussions during the meeting. The committee took following unanimous decision:

- i)** Responses to queries received from different bidders through E-mails would be answered accordingly and to be sent through E-mails to the respective potential bidder (Action by Dr. S. K. Prajapati in consultation with Dr. O. P. Mishra).
- ii)** Minutes of this meeting will be uploaded by NCS-MoES to suitable web sites of MoES along with on CPP as per the clause mentioned under Page no. 9 (6.4) of the bid / RFP documents [Action: Dr. S. K. Prajapati in consultation to Dr. O. P. Mishra]
- iii)** All potential bidders advised to go through entire bid / RFP document carefully to understand many of their queries and get the readymade answers by themselves.
- iv)** Some of bidders made request to the committee for reducing the technical and financial eligibility criteria mentioned in the uploaded bid / RFP document, which was not considered and hence rejected by the committee because these criteria have been frozen on approval from the competent authority of government of India.
- v)** A bidder may be a private entity, government-owned entity or any combination of such entities supported by a legal joint venture (JVA) with MoU. The procedure of bidding and exemption of any clause is based on the guidelines of Government of India.
- vi)** The committee accepted the request of companies / firms for extension of closing date of bids submission up to 31st July 2017 because of involvement of detailed steps in understanding and arranging several necessary documents related to the work components and tender's terms and conditions A necessary corrigendum for extending the last date of the submission of bid will be uploaded to CPP website for better clarity (Action: Dr. H. S. Sisodia in consultation with Dr. O. P. Mishra).
- vii)** The committee agreed to avoid every sort of conflict of interest among members / vendors as per the guidelines of the Government of India. Involvement of member / Members (s) from any government organizations as a member of the Tender Evaluation Committee or any of the committees meant for this project for NCS-MoES debars that institute / organization from participation in the bid / tender **as the lead bidder**, while, that institute may participate in the bid / tender as a partner through JVA.
- viii)** The committee recommended for inclusion of a representative from IFD, MoES as a co-opted member in Tender / bid opening committee for seeking feedbacks on financial clauses if when required.

ix) Potential Bidders were requested to follow entire instructions strictly given in the Bid / RFP document, and they should submit all requisite documents / EMD at the time of submitting their respective bid for the project to avoid further confusion with regards to this project.

The meeting ended with a vote of thanks by Dr. S. K. Prajapati, Scientist, NCS-MoES.

No. MoES/P.O.(Seismo)/8(12)/2012(microzonation)
SFS-CS/EHRA/3/2013-2016/3(B)
Ministry of Earth Sciences
National Center for Seismology

Annexe Building
IMD Campus, Lodhi road
New Delhi-110003
Dated 31st May, 2017

OFFICE ORDER

Subject: Constitution of a Committee for technical evaluation of tender document under the project "Seismic Microzonation of 30 Cities of India" by NCS-MoES.

In continuation of this Ministry's Administrative Order of even number dated 30/3/2017 on "Seismic Hazard Microzonation of 30 targeted Cities of the Country", approval of the Competent Authority is hereby conveyed for constitution of a Committee for technical evaluation of tender document for this project by NCS-MoES, with the following Members for a smooth conduction of the activities, *with slight modification in the name at Sl.No.1 of Office Order dt. 29th May, 2017 issued earlier, as given below :*

- | | | |
|---|---|-----------------|
| 1. Prof.Sankar Kumar Nath,
Deptt.of Geology & Geophysics, IIT, Kharagpur | - | Chairman |
| 2. Director, NCS, MoES | - | Member |
| 3. Prof. Chandan Ghosh, Head(Geohazard), NIDM,
N.Delhi | - | Member |
| 4. Representative of NGRI, Hyderabad | - | Member |
| 5. Representative of GSI, Kolkata | - | Member |
| 6. Representative of ISR, Gandhinagar | - | Member |
| 7. Dr. O.P.Mishra, Scientist-F, MoES | - | Member Convener |

The Committee will have mandate to give technical feed back to NCS-MoES and participate in technical evaluation and related activities. The expenditure to be incurred towards organizing meetings and participation by experts members will be borne by NCS-MoES.

This issues with the approval of Secretary, Ministry of Earth Sciences.

(Dr. O.P.Mishra)
Scientist-F & Progm. Director (SHRA),NCS, MoES

To



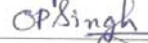

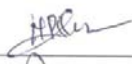

Pay & Accounts Officer, Ministry of Earth Sciences, New Delhi

Copy to:

1. AS& FA, MoES

S.No-29(L)R



ATTENDANCE SHEET

S.No	Name of the Member	Signature	Mobile No.
1.	Prof. S. K. Nath		9734634942
2.	Dr. D. Srinagesh		9440289071
3.	Dr. Sumet Chopra		9426564038
4.	Dr. O. P. Singh		9433329945
5.	Dr. O. P. Mishra		9433424810
6.	Dr. H. P. Shukla		9818553839
7.	Dr. Sanjay K. Rajapadi		782753883
8.	Dr. H. S. Sisodia		9717923539
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

S.No. 27 (ii) (a)

ATTENDANCE SHEET

S.No	Bidder Name	Name of Company	Signature	Mobile No.
1.	L D Mahapatra	Aimil Ltd.		9958890699
2.	RAJENDER GOUD VAGGU	AIMIL LTD		9650866511
3.	ARPIT .PARIKH	ESSQUARE GEO SERVICES		9978295675
4.	Somdip Deshpande	Remuda Consultants		9820393726
5.	Vishal Suresh	Geo Designs & Research Pvt. Ltd.		9662529220
6.	Kapil Mohan	Institute of Geological Research		909034451
7.	Nakul Des	AECS Engineering & Geotechnical Services Pvt. Ltd., Noida		9868853192
8.	Sorabh Gupta	Leavis Geotechnika Pvt. Ltd Noida.		9910861118
9.	Sayapankar . C	Geo Marine Solutions Pvt. Ltd H. B. Kheri, Kanpur		9496379 278
10.	M. Balakrishna	- DU -		9483517689
11.	P. K. Kundu Abid Hassan	explorer		987848752
12.	S. Visagan	South West Pinnacle		8800390959

13.	Hemant Bhardwaj	Unipak Groundwater		9873484342
14.	Sunjay L. Shannu	Unighe Geo solutions		8800098830
15.	Dr. U. Basu	C. E. Testing Co (P) Ltd.		9871871962
16.	MR. ARUN GOLODER	SECON Pvt. LTD.		8826706166
17.	Mr Deepak Sood	M/S Rawal Singh & Co.		9888022759
18.	Inderjit Singh	Scanpoint Geomatics Ltd.		9818005945
19.	SANJEEV KR. GARG	Indian Geotechnical Services		9810038102
20.	Col. A. Kanchik (Retd)	Parsons Overseas Pvt Ltd.		9868267200

Responses / Clarification of Queries of Bidders

It is pertinent to note that queries of several potential bidders received by NCS-MoES through E-mails have already been responded to the respective potential bidders in their E-mails. These following responses were also discussed in the pre-bid meeting in front of the Technical Committee of NCS-MoES on 19.06.2017.

1. Potential Bidder-1

Bidder's Query (1): Ref: Clause 3.4.1/3.4.2/ 3.4.4 (a) Page No. 6/7-Qualifying Criteria. As per this clause a bidder can apply for maximum 10 Cities. May please clarify

Response: Yes, one bidder can have choice of applying for maximum up to 10-cities. These are already clarified in RFP / Bid document with clear illustrations. Additionally, the query was also discussed during the Pre-bid meeting in presence of the Chairman, Technical Committee, Prof. S. K. Nath and other members of the Committee.

Bidder's Query (2): Ref: Clause 3.4.3 Page No. 7 - Qualifying Criteria. As per this clause 100 Manpower is needed for all cities, however, as per cl. 3.4.1 a bidder can apply for maximum 10 cities? May please clarify.

Response: The manpower 100 for 10 cities and it is appropriately proportionate for other.

Bidder's Query(3): Ref: Clause-4.2 Page No. 7 - Tender Fee- As per Public Procurement Policy of Govt, of India SMEs registered with Ministry of MSME and NSIC are exempted from submitting the Tender fee (Copy of Public Procurement Policy Circular 2012 attached in Annexure-I for your ready reference). Hence this clause should be suitably modified.

Response: As per the Government Directives quoted above, and also central Purchases unit of MoES. It is exempted for the eligible vendors only as per the set guidelines of Govt. of India. If allows, a necessary corrigendum will be issued soon for this. It is, however, requested the potential bidder to follow the entire terms and conditions strictly as given in the Bid / RFP document.

Bidder's Query (4): Ref: Clause-15.0 Page No. 11- Earnest Money- As per Public Procurement Policy of Govt, of India SMEs registered with Ministry of MSME and NSIC are exempted from submitting the Tender fee (Refer Annexure-I). Hence this clause should be suitably modified.

Response: It is already answered for your Query (3), We will follow the directives of the Government of India, and guidelines of Finance and CVC integrity Pact in accordance to Govt. of India. However, it is mentioned that if allows a necessary corrigendum will be issued soon for this. It is requested to follow entire terms and conditions as per Bid / RFP document.

Bidder's Query (5): Ref: Clause-25.0 Page No. 15- Purchase Preference- As per Public Procurement Policy of Govt, of India purchase preference is also applicable (+15%) SMEs registered with Ministry of MSME and NSIC. (Refer Annexure-I). Hence this clause should be suitably modified.

Response: We will follow the directives of the Government of India, and guidelines of Finance (GFR) and CVC integrity Pact in accordance to Govt. of India. Answer is given for your preceding queries

Bidder's Query (6): Ref: SECTION II Bid Data Sheet, Page No. 17, LOI 15.1- Please clarify whether EMD is 2% or 4 Lacs per city? EMD of Rs. 4 lacs per city is too high especially if a bidder applies for 5 or

Response: It is as per the approval of IFD, MoES and is not changeable.

Bidder's Query (7): Ref: SECTION II Bid Data Sheet, Page No. 17, LOI 25- As per Public Procurement Policy of Govt, of India purchase preference is also applicable (+15%) SMEs registered with Ministry of MSME and NSIC. (Refer Annexure-I). Hence this clause should be suitably modified.

Response: Already replied above for your reference

Bidder's Query (8): Ref: SECTION V Works component & guidelines, Page No. 53 - Geophysical investigations (Category V) - Please confirm whether the depth of DHT shall be 100m as the borehole depth is 30m. Rate of drilling will be different for deeper boreholes but rate asked for only up to 30m.

Response: Please refer to page no 132 and Table 5. It is requested to read the entire Bid Document carefully for getting your own clarification. The 30m deeper Boreholes will be for SPT (Standard Penetration Tests), while the borehole of 100m depth will be for Down-hole Shear wave velocity test (DHT). Rate of drilling is clearly described in Table 5 (page no. 132).

Bidder's Query (9): Ref: SECTION V Works component & guidelines, Table 3, Cat III, Item A 1a and A 1c, Page 69- It is mentioned that boring/drilling to be carried out only by Hydraulic Drilling Rigs. Although for predominantly rock sites this may be appropriate, for predominantly soil sites other kinds of boring machines, e.g., mechanical, shell and auger, etc may be accepted. This will not only expedite the work but also reduce cost without compromising with the quality. Of course, the undisturbed samples have to be driven by hammer in this case. Considering the quantum of works, availability of so many hydraulic machines also doubtful. In case of hydraulic machines also UDS to be collected by hammering in stiff to hard soils if we are not going for special type of samplers, which has not been asked in the specifications. Alternatively, hydraulic machines with special types of samplers may be specifically asked for few selected boreholes in each city where special laboratory tests are envisaged. Of course, these special laboratory tests can also be done on reconstituted samples.

Response: We already discussed this point in detail during the pre-bid meeting in presence of technical committee on the subject of MoES. No Auger drilling is allowed for UD sampling. It should be Hydraulic only. The bidding should be in accordance to RFP / Bid document uploaded to CPP. No deviation from the specified configurations will be entertained.

Bidder's Query (10): Ref: SECTION V Works component & guidelines, Table 3, Cat III, Item A5, Page 70- SCPT stands for Static Cone or Seismic Cone? In section VI it has been mentioned as Seismic Cone and if this is the case it should be part of Geophysical Investigation in section VI. However, for the determination of shear wave velocity MASW and DHT are already there. Please clarify.

Response: It is SEISMIC CONE PENETRATION TEST (SCPT) and it is to be done 10% of the total number of drilled boreholes. Pl refer page no 132 table 5.

Bidder's Query (11): Ref: SECTION V Works component & guidelines, Table 3, Cat III, Item B6, Page 71- It appears that the item should be **consolidation test**. C_c is not coefficient of consolidation, it's compression index.

Response: Its gives compression index and it is coefficient of consolidation.

Bidder's Query (12): Ref: SECTION V Works component & guidelines, Table 4, Cat IV, Page 73-As per our knowledge only few institutes like NTs and CSMRS have the capability to do these special laboratory tests, that too not all tests. It is difficult for a private agency to get the work done from these institutes due to their other commitments. It is suggested that these tests be taken out from the scope of this tender and the Department may directly get these tests done from the institutes. Sampling is already in the scope. May like to consider this and advance action may be taken to expedite the work.

Response: There is no question of taking out the prescribed laboratory tests out of scope of the work given in the Bid documents on the ground of incapability of the Private companies. Qualified bidders can get the job done from the qualified laboratories of qualified institutions as their partners of JV or on the payment basis whatever allowed as per the mechanisms discussed in the bid documents. There are several institutions and organizations such as IISC, Bangalore, IIT Roorkee / IIT Delhi / IIT Chennai have the testing labs. However, the cost of expenditure from outside laboratories would be borne by the qualified bidder.

Bidder's Query (13): Ref: SECTION V Works component & guidelines, Table 5, Cat V, Page 73-DHT to be performed upto 100m depths whereas the boreholes are upto 30m depths. Rates for deeper boreholes will definitely be higher. Please confirm if DHT is needed upto 100m depths and, if yes, separate rate for boring / drilling to be taken for boreholes deeper than 30m depths. Rate for DHT shall be per BH or per depth. Considering @ 1.5m depths it will be 67 nos per BH for 100m deep boreholes. Please confirm if MASW is to be quoted per site.

Response: Up to 30 m mandatory and a separate borehole of 100 m will be done that covers 10 percent of total drilled boreholes. The qualified vendors / awarded companies have to do all types of testing in those boreholes as described in the Table 5 (Page 73). It is obvious from the rate of drilling as given in page 132 and table 5. It is advised to read the bid document carefully and please follow the specified norms spelt out in RFP / Bid document. Yes MASW should be quoted per site as referred to Page 53 (Category V).

Bidder's Query (14): Ref: Proforma-7 Financial bid, Page 133- In the calculation of normalized bidding price DCPT, SCPT and Laboratory tests not considered. Please confirm.

Response: It has been considered and is advised to refer to page 133 for your own clarification.

Bidder's Query (15): Ref: GCC clause 7.2, page 143- Time schedule has been indicated as 12/24 months. Please clarify whether this is for 1 city, 5 cities or 10 cities.

Response: If one has to take 10 cities; parallel it should complete within 12/24 months the entire quantum of the work awarded to the successful bidders as the extent of manpower is required as per the city what we mentioned in the bid document and answered your query no. 2. It is,

therefore completion period of the assigned job for qualified vendor is minimum of 12 months and maximum of 24 months. Beyond the prescribed maximum period of completion, it may attract the provision of compensation for delays.

Bidder's Query (16): Ref: GCC clause 10.1, page 146- Rate of interest of 18% on the mobilization advance is too high, even banks do not charge so high interest. May kindly review.

Response: Based on the technical significance of the job and in order to avoid the risk of delaying operation, such clause has been taken in to account, which has approval of IFD, GOI what has been shown in the specified terms and condition under Clause 10.1 (page 146).

Bidder's Query (17): Ref: GCC clause 10.2, page 146- Payment terms may be revised to monthly instead of quarterly. This will definitely help in accelerating the work progress.

Response: It is an approved clause by the competent authority of Ministry of Earth Sciences (moES), Govt. of India, so whatever is spelt out in the RFP / Bid document, the bidders are requested to follow strictly.

Bidder's Query (18): Ref: GCC clause 12.1, page 148- This clause refers cl 10.4 for rate of interest for delayed payments. However, cl 10.4 is regarding the release of security deposit. May kindly amend.

Response: All these points have appropriately approval from the competent authority of MoES that cannot be amended and all the terms and conditions are to be followed accordingly.

2. Potential Bidder-2

Bidder's Query (1): Ref: Clauses 3.4.1/3.4.2/ 3.4.3 Page No. 6 Qualifying Criteria-Do geotechnical investigations also cover drilling and sampling in rock strata and Insitu tests on rock mass such as shear strength parameters, deformability tests w etc. for characterization of rock mass. Please clarify

Response: The Company is advised to go through Bid / RFP document carefully. The entire work components of the proposed job are described under pages 52 – 76 in the Bid document.

Bidder's Query (2): Ref: Clauses 3.4.1/3.4.2/ 3.4.3 Page Nos. 6 & 7 Qualifying Criteria- Para 3.4.1.1 states "The bidder submitting interest for individual cities should have undertaken at least two individual projects in geotechnical studies of similar nature for geotechnical characterization (geological, geotechnical, geophysical, seismological etc. parameters) with a value of not less than Rs. 25 Lakhs in the Govt, domain (international/foreign govt. Organizations/Central Government and/or State Government. Does the above imply that the value of works indicated should be for work carried out for International Organizations/government sector only and not for reputed & large Pvt. Companies. Please clarify.

Response: The work carried out for Central Govt. / State Govt. / Public Sectors of Central / State Govt./ Institutions / Organizations of Central or State Government / international / Foreign Govt. organization (s) are definitely included. If the Company involved in completing the said government affiliated works as the sub-contractor of the any other private companies awarded job for the Government affiliated agencies / organizations / institutions / public sectors, may be eligible subject to the submission of a requisite certificate with regard to executing the government jobs / works as a sub-contractor of the principal private company contractor of the jobs which were received from the above mentioned Government sectors.

Bidder's Query (3): Ref: Clause 3.4.2 (iii) Page No. 7-Qualifying Criteria- Does it imply that the bidder bidding for a single city has to have a base in that city? For example, a company having base in say Delhi cannot bid for a single city say Surat as Surat is not base for that company operating from Delhi. Please clarify.

Response: No, bidder can be of any part of India. It is self-explanatory.

Bidder's Query (4): Ref: SECTION V Works component & guidelines, Table 3, Category III, Item A5, Page 70- Please clarify whether SCPT means Static Cone Penetration Test or Seismic Cone Penetration Test. In case of Static Cone Penetration test, is there any v condition whether it is to be a mechanical cone or electric cone with continuous record of cone bearing and sleeve friction etc.?

Response: It is SEISMIC CONE PENETRATION TEST (SCPT) and it is to be done 10% of the total number of drilled boreholes. Please refer to page no 132 table 5. This represents the mechanical cone and the methodology involves the estimates of shear wave velocity of the sub-surface geological formation.

3. Potential Bidder-3

Bidder's Query (1): Ref: Pg. No.6: 3.4.1.3 The bidder submitting interest for 10 targeted cities, should have undertaken at least five such projects in geotechnical studies of similar nature for geotechnical characterization (geological, geomechanical, geophysical, seismological etc. parameters) spread over the country, with a value of not less than Rs 2 Crore of individual projects in the Government Domain (international/foreign Govt. Organization(s) / Central Government and/or State Government). Clarification: To relax terms of eligibility-At least THREE such projects, so that more bidders are able to qualify and a healthy competition is created.

Response: These cannot be amended or modified at this stage. All the terms and conditions have approval from the competent authority of MoES, Govt. of India.

Bidder's Query (2): Ref: Pg. No.53: Category III& V: Geotechnical depth borehole is 30meter. Whereas the DHT (Down Hole Test) have asked for 100m depth.

Response: Yes, please refer to Page no 132 and Table 5 (category V). The Boreholes of 30m depths will be for SPT (Standard Penetration Tests), while the borehole of 100m depth will be for Down-hole Shear wave velocity test (DHT).

Bidder's Query (3): Ref: Clarification sought: This is not possible the DHT should be for 30m or they should go for separate borehole of 100mtrs for 100m DHT.

Response: Please ref Page no 132 and Table 5 (category V). No it is not possible for conducting DHT with boreholes depths of 30 m, it should be with 100m deeper boreholes that would be 10% of total boreholes to be drilled at the investigation sites.

4. Potential Bidder-4

Bidder's Query (1): The depth of the bore hole including SP Test is specified to be 30M depth. This is specified in Table-3.1a. Further, penetration is rock limited to 3M. We are of the opinion that in rocky soils the penetration should be 10M in case of soft rock/fractured rock (RQD<25%) and 3M in sound rock with RQD>25%.

Response: Page No. 53 of Tender document under heading "Geotechnical Investigation (Category III)" clearly mentions about the depth of borehole for conducting SPT, the drilling should be up to 30 meters depth. In case, if hard rock is encountered before reaching 30 meters depth, the core drilling has to be deployed for 3 meters more in to the hard rock. For example, if hard rock encountered at the depth of 'X' meter (where, X < 30m), then, core drilling has to be done up to '(X+3) m'. For detail, please read clearly the Tender document Page no.53.

Bidder's Query (2): However, for down hole wave velocity test, the depth is specified to be 100M. That means for conducting such test we cannot use the 30M bore holes and separate bore holes are to be sunk. Alternatively, the depth should be limited to 30M or less.

Response: Please refer to page no 132 Table 5 (Category V). Yes, DHT cannot be done with boreholes of 30 m depths, while SPT will be conducted with 30m depth. There is no scope of furnishing alternative solution and the bidder has to follow the strict guidelines in the bid documents. The less deep bore hole than 30 m depth is only possibly if hard rock is encountered before reaching 30 meters depth, then the core drilling has to be deployed for 3 meters more in to the hard rock. For example, if hard rock encountered at the depth of 'X' meter (where X < 30m), then, core drilling has to be done up to '(X+3) m'. For detail, please read clearly the Tender document Page no.53.

Bidder's Query (3): In case of hard rock appearing at shallow depth (for example at Asansol) the depth should be limited to about 15M even for down hole test.

Response: It is self explanatory and it was also clarified in your preceding query.

Bidder's Query (4): Alternative solution will be to use compressed air drilling (which can be done up to 100M easily) for down hole tests.

Response: The bidder is advised to follow the guidelines given in the Bid document. The prescribed borehole of 100m depth should be for DHT, which is self explanatory. We will not accept the alternate solution devised by the bidder for own self and on own convenience. The investigation is based on technical specifications which should be followed strictly.

5. Potential Bidder-5

Bidder's Query (1): In geotechnical work, boreholes depth is for 30m but for geophysical test DHT to be carried out for 100m depth. Please confirm how the additional depth of borehole will be adjusted.

Response: It is well documented in RFP and self explanatory as per page no.132 Table 5, which is pertinent to your clarification. There is no question of adjustment of the additional depth of boreholes. There are several sets of tests prescribed in the bid documents, such as SPT, SCPT, and DHT. The boreholes of 100 m depth need to be drilled separately and it will be apart from boreholes of 30 m depths. It may please be noted that the boreholes of 100 m depth should be 10% of the total drilled boreholes. As for example if total boreholes points are identified as 60 in number then 6-boreholes would be 100 m depth for DHT and remaining 54 number of boreholes will be of 30 m depth each for other sets of investigations.

Bidder's Query (2): If for a small part of the Geophysical work, any assistance from outside agency is required, is it permitted? If yes, whether it is Ok if the credentials and capability of that party are submitted after award and before commencement of work.

Response: It is acceptable subject to the declaration of name of agencies / institutions / Laboratories / partners of the team or joint venture in the beginning with a letter of the consent that such laboratories tests or geophysical works will be done for the bidder once qualified. A letter of consent from other outside agencies needs to be submitted at the time of bidding. It may please be noted that NCS-MoES will not be responsible for bearing any cost of expenditure to be incurred for getting assistance from the outside agency by the bidder for getting any part of geophysical works done. The cost burden will be solely on the bidder not on NCS – MoES. It is well documented in RFP page no 6.

Bidder's Query (3): SCPT test- how many tests per city?

Response: Refer to Page 132 and Table no. 5. It is self explanatory. The percentage observations are given in the bid document.

Bidder's Query (4): Mob / de mob and surveying charges are different for different cities but geotechnical and geophysical tests rate are unit rates and valid for all cities? Please confirm whether our understanding is correct.

Response: It's true.

Bidder's Query (5): Can we bid for more than 1 city and less than 5 cities?

Response: Yes, subject to the condition given on page 6 (3.4.1.1), the bidder can bid with submission of interest for group of cities with terms and conditions, please refer to specified clauses page no 6 (3.4.1.2; 3.4.1.3). However, the bidder can submit for single city, a group of cities as indicated in the bid/RFP document.

Bidder's Query (6): Please clarify that to bid for a City, previous experience is not necessarily required for that particular city. Or in other words, similar experience elsewhere in India will qualify for under taking work for another city against this tender, please confirm.

Response: Bidder can bid for any city and should strictly follow the RFP / Bid document. Yes, similar experience elsewhere in India with all other terms and conditions as mentioned in the

Bid / RFP document are required for seeking qualification under competitive bid format as described in the bid document.

Bidder's Query (7): Please confirm that permits and access are to be arranged by the client.

Response: The NCS-MoES will give authorization letters to the successful bidders in consultation with district & state officials. Acquiring the sites and all other related formalities of commencing the technical investigations will be the responsibility of the qualified bidders that will require individual efforts and planning of the bidders for completing the work within the stipulated time period as mentioned in the bid / RFP document.

Bidder's Query (8): In the event of any dispute with the villagers, client representative will intervene to resolve the issues.

Response: It will be individual effort of the bidder for resolving the issue of dispute with the residents of cities; however, the purpose and significance of the work to be carried out for the public interest in the city under the approved Government plan will be communicated to the concerned of the District Administration by NCS-MoES, Govt. of India as when it would required.

Bidder's Query (9): If any situation arises where any compensation / fee is to be paid for the execution of the work at the designated site, the same will be reimbursed by client. Please confirm.

Response: Entire issue will be dealt by the Bidder. No, not at all! Reimbursement of any expenditure towards the raised issues will not be entertained by NCS-MoES. Please follow the specified norms mentioned in RFP document (Part D, Section VIII).

Bidder's Query (10): Whether drilling water will be provided by client?

Response: No, entire infrastructural supports and accessories required for conducting the operational surveys and investigations are the responsibility of the bidder without any extra payment. Follow the specified norms mentioned in RFP document.

Bidder's Query (11): Clearance of bushes or other physical impediments will be cleared by the client. Please confirm.

Client's response: No, the potential bidder is requested to follow the specified norms mentioned in the Bid / RFP document.

Bidder's Query (12): Being a Country based work with utmost national importance; we expect that necessary information and instruction will be passed on to the respective DM/DC and SP Districts. Please confirm.

Client's response: The MoES will give authorization letters to the successful bidders in consultation with district & state officials. Acquiring the sites will be the responsibility of the individual qualified bidder for the job.

6. Potential Bidder-6

Bidder's Query (1): Our Company in agreement with a foreign company is interested to take part in the bid for two cities of Odisha i.e. Bhubaneswar and Cuttack. However, as mentioned in Clause 3.4.2 (ii) our turnover in last 3 years varies from 1.6 cr to 2.1 cr. In this perspective we would like to request you to lower this parameter to 1.5 cr instead of 2.5 cr. Also, as mentioned in Clause 3.4.2 (iii), for a particular city the average turnover should be more than 0.25 cr. As our average turnover is more than 1.5 cr, we also seek a clarification to the fact that whether we can apply for the above mentioned two cities as per this provision.

Response: It is not possible to lower down the tune of turnover as specified under clause 3.4.2. All the terms and conditions have been made as per the approval of IFD, MoES, Govt. India, which is unchangeable at this stage.

Bidder's Query (2): We also seek clarification regarding selection of locations for Geotechnical and Geophysical investigations within a particular city i.e. whether the locations are to be selected by the successful vendor or there are pre-determined sites by you as these will be located within much urbanisation and provisions are to be made to obtain clearances for so.

Response: It would be based on geological and geo-morphological information derived from previous investigations carried out by various organizations in past. Additionally, the results of geophysical and seismological investigations obtained by bidder will be analyzed by expert team of NCS-MoES to decide the locations for geotechnical investigations in consultation with the technical experts of the technical committee. Conduction of geophysical and seismological surveys of the city by the qualified bidder will guide the locations fro geotechnical investigations associated with drilling of boreholes.

NCS-MoES will also write to the concerned State government officials for helping the qualified bidders for conducting investigations in the city.

7. Potential Bidder-7

Bidder's Query (1): Ref: Section-II, bid data sheet, its mentioned that EMD will be of Rs. 4 Lakh for single city. Further its mentioned that contractor quote for more than one city, the same will be decided on prodata basis. Kindly conformed the amount of EMD for five or ten cities.

Response: This was discussed in the meeting and clarified to the satisfaction to the representative of the company. It is a pro-rata basis.

Bidder's Query (2): Kindly confirm the estimated cost of each city separately including all components

Response: Rate should be quoted city wise as mention at page 53.

Bidder's Query (3): Under Section-! refer clause 12.6 its mentioned rates quoted by the bidder will include all taxes. Service tax has not been mentioned and as per the service tax act. it will be paid extra and shall be paid jointly by service receiver and provider (equally).

Response: Please refer to page no. 133. NCS-MoES will follow the rules / regulations and guidelines of Government of India whatever exist.

Bidder's Query (4): Work carried under the city area require permission and the same will be obtained by you.

Response: The MoES will give authorization letters to the successful bidders in consultation with district & state officials. Acquiring the sites will be the responsibility of the individual qualified bidder for the job.

Bidder's Query (5): Please confirm the availability of work sites, if the work is allotted for group of cities, the sites are available immediately.

Response: Same as the reply of your query no 4.

Bidder's Query (6): Confirm payment milestone procedure.

Response: The bidder is requested and advised to go through the entire RFP / Bidder document carefully to get clarification of its points. Please refer to page no 146 for your clarification.

8. Potential Bidder-8:

Bidder's Query (1): Ref: Clause 3.4.1.1 of 3.0 Eligibility for participation in Bid-The bidder submitting interest for individual cities should have undertaken at least two individual projects in geotechnical studies of similar nature for geotechnical characterization (geological, geo-mechanical, geophysical, seismological etc. parameters) with a value of not less than Rs. 25 Lakhs in the government domain

Response: All the terms and conditions are made as per the approval by the competent authority of NCS-MoES with concurrence by IFD, MoES, Govt. of India, which cannot be changed at all. The above clause is the condition for qualifying in the bid.

9. Potential Bidder-9

Bidder's Query (1): Ref: Clause No.3.4.1.1 to 3.4.1.3 of (LOI) - Qualification Criteria : The bidder should have undertaken at least two individual projects+Blment Domain (international / foreign Govt. Organization (s) / Central Government and / or State Government.

The other Public Sector / Private Sector Organizations should be included.

In general, for geotechnical investigation / geophysical study tenders of various organizations like, DMRC, NCRTC, RITES, NPCIL, BHEL, IRCON etc. the Public Sector and Private Sector Organizations are also included. [Copy of reference is enclosed as (A)].

The work carried out for Central Govt. / State Govt. / Public Sectors of Central / State Govt./ Institutions / Organizations of Central or State Government / international / Foreign Govt. organization (s) are definitely included. If the Private Company involved in completing the said government affiliated works as the sub-contractor or the principal contractor of the any other Government companies awarded the job for any of the Government affiliated agencies / organizations / institutions / public sectors, may be eligible subject to the submission of a requisite certificate with regard to executing the government jobs / works as a sub-contractor of the principal private company contractor received from the above mentioned Government sectors. The certificate should be attached at the time of bidding.

Bidder's Query (2): Projects in last 7 years should be considered. In general various other organizations like DMRC, NCRTC, RITES, NPCIL, IRCON, BHEL, IOCL etc. the projects over last 7 years are considered for Pre-qualification [Copy of reference of NIT / ITB is attached as (A)].

Response: As per General Financial Rules of Government of India, the projects turnover for the last 3 financial Years should be considered. This cannot be changed. This is a standard norm of judgment in three consecutive years.

Bidder's Query (3): Values of Work done to bring cost at current costing level. As per the practice of various organizations like Delhi Metro (DMRC), NCRTC, Nuclear Power Corporation of India Ltd. (NPCIL), RITES Ltd. etc, the value of work done meeting prequalification criteria shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the first day of the month next to the month of completion to the last date of the month previous to the one in which NIT has been published. [Copy of references is attached as (A)].

Response: The present Tender document has been prepared based on General Financial Rules of Government of India. The bidder is advised to go through the bid document carefully!

Bidder's Query (4): Selection of locations / sites for Seismic Survey, Geophysical Survey, Geotechnical Survey, sampling etc.

All test locations shall be on the side / berms of roads so as not to disrupt traffic and from safety point of view. Please confirm.

The suitable locations shall be identified / selected in advance as required for carrying out the required surveys / studies / testing.

Response: All these decisions would be based on geological and geo-morphological, and available data from previous investigations carried out by various organizations. However, modalities of conducting investigations and identification of borehole points should be decided in consultation with the concerned Scientist of NCS-MoES / technical expert group.

NCS-MoES will also write to the concerned State government officials to facilitate acquiring sites for investigations. Acquiring the sites will be the responsibility of the individual qualified bidders.

Bidder's Query (5): Test Locations / Permissions / Utilities.

- (a) Necessary permissions / clearances from local authorities as required for executing the work at specified locations shall be provided and organized by you free of cost. Please confirm.
- (b) All test locations shall be selected in such a way so that underground / over ground / service lines are not encountered Please confirm.

Response: With the consultation of Designated Scientist of NCS-MoES, the sites in the city will be decided. Please refer to Page number 75 of Tender document under heading 'Guidelines for the Bidders'. The geophysical and seismological investigations by the qualified bidder will provide further locations for geotechnical investigations.

All necessary steps for initiating the investigations at sites of cities will be taken up by the qualified bidder. NCS-MoES will give authorization letter to the concerned District Administration with information about the award of the project to the qualified bidder only. The responsibility lies on the qualified bidder to get clearance and maps and other resource arrangements that to be required for carrying out the investigation by the qualified bidder.

Bidder's Query (6): Under Section-III: Guidelines for Preparation of Bid - Clause No.2: Financial Bid

The final proposal must take into account the tax liability and cost of insurances etc. Please clarify the type of insurances as required. Normally, workmen compensation policy for workers is taken and can be submitted Please confirm.

Response: Here, the Insurance means; Workmen compensation insurance and the cost of the insurance should be borne by the bidder. Please refer to Section-D for entire details as per the Govt. of India guidelines.

Bidder's Query (7):: Note No.3 of Page No. 133 of Tender Documents: Rates should be inclusive of all sales tax, Central Sales Tax and Service Tax etc
Service Tax / GST should be payable extra over and above quoted rates. (Since the new laws for GST are likely to be enforced w.e.f. 1st July, 2017)

Response: Please refer page No.133, it is already mentioned that, if any other charges are applicable, should be clearly specified. NCS-MoES will abide by the order of Govt. of India whatever allowed as per Law the bidder can take into account.

Bidder's Query (8): Under Section-II : Bid Data Sheet, Point No.7 - Audited financial information for the last years indicating annual turnover, profit / loss are to be submitted. However, under

Form-"G" - Financial Information, Point III(a) : Tax deducted at source certificates from the clients for last three years are to be enclosed.

Response: As per General Financial Rules of Government of India, the audited financial information for the last 3-financial Years indicating annual turnovers that should be submitted. Needless to say the report should be audited report.

Bidder's Query (9): Audited balance sheet for the last 3 years are to be submitted. As such TDS certificates are not required for Pvt.Ltd. Companies (since audited balance sheet is being submitted). However, 26AS statement of income tax portal can be provided

The requirements of financial information may please be reviewed for all types of companies viz. proprietorship / partnership / Private Limited Co.

Response: As per General Financial Rules of Government of India, the audited financial information for the last 3 - financial Years indicating annual turnovers should be submitted. It is not possible to change any of the clauses which have approval from the competent authority of Govt. of India with subsequent vetting by IFD, MoES, Govt of India.

10. Potential Bidder-10

Bidder's Query (1): With reference to your Questions with reference to 3.4.2 Page 7:3.4.2 regarding annual turnover of last 3 financial years for group of cities- 10 cities; 5 cities and, for a particular city etc; for above mentioned subject matter, for Query: (i) (a) What about Government Research Institutes. Are they eligible to participate in this tender process? (b) If yes, then, Are they relaxed from the financial turnover condition?

Response:

- (a) Yes they are very much eligible to participate in tender process**
- (b) The combined earning from the projects completed by any institute will be considered as an annual turnover.**
- (c) The committee agreed to avoid every sort of conflict of interest among members / vendors as per the guidelines of the Government of India. Involvement of member / Members (s) from any government organizations as a member of the Tender Evaluation Committee or any of the committees meant for this project for NCS-MoES debars that institute / organization from participation in the bid / tender as the lead bidder, while, that institute may participate in the bid / tender as a partner through JVA.**

11. Potential Bidder-11

Bidder's Query (1):Ref: clause 3.4.1.3 The bidder submitting interest for 10 targeted cities, should have undertaken at least five such projects in Geotechnical studies of similar nature for geotechnical characterization (geological, geo-mechanical, geophysical, seismological etc. parameters) spread over the country, with a value of not less than Rs 2 Crore of individual projects in the Government .

Kindly confirm that the experience of the bidder or joint venture partners also mean experience for clients outside India.

Response: Here experience of the entire ventured group will be considered with special emphasis of the leader bidder. The financial turnover will be taken into account of the lead bidder only. Foreign company's (FC) financial turnover will not be considered since FC would be the partner with Indian lead bidder as per the requirement.

Bidder's Query (2):Ref: clause 3.1 together with 3.4.2 of tender- (a) Kindly advise if an Indian company (partner) can submit the bid under technical collaboration with an experienced foreign company where the foreign partner meets the requisite technical/experience criteria of the tender. And both the bidder and foreign technical collaborator shall jointly execute the work i.e. both(foreign technical collaborator and Indian bidder) to be jointly as well as severally responsible for successful execution of contract. (b) Kindly confirm if the tender allows a foreign company or a foreign joint ventures to participate in the tender.

Response: An experienced Indian lead company as the lead bidder can bid with the experienced foreign company as its team member / partner / expert in the joint venture that should be declared at the time of bidding. However, the entire financial credentials of the lead Indian bidder will be taken into account for consideration of the bid for further evaluation processes. Financial credentials of the foreign partner company / Companies will not be taken into account for evaluation purposes.

Bidder's Query (1):Ref: Para 3.3 : A partner cannot submit, whether jointly or severally, more than one bid in this bidding process. Participation by a partner in more than one Bid will result in the disqualification of all Bids in which that partner is involved. However, two JVs, in which there is no common partner, may jointly submit a single Bid. There would not be any objection to the inclusion of the same subcontractor in more than one Bid.

The clause that "There would not be any objection to the inclusion of the same subcontractor in more than one Bid." is not clear. Kindly clarify.

Response: Yes, inclusion of sub contractor is acceptable. There will not be any objection for becoming sub-contractor for more than one or multiple companies. Please refer to the page 6.

Bidder's Query (2):Ref: Para No.3.4.1.1: The bidder submitting interest for individual cities should have undertaken at least two individual projects in geotechnical studies of similar nature for geotechnical characterization (geological, geo-mechanical, geophysical, seismological etc. parameters) with a value of not less than Rs 25 Lakhs in the Government Domain.

We have two geo technical works in Govt domain for INR 29.16 lakhs and 20.18 lakhs respectively, which are directly awarded by govt depts. A third one for INR 30 lakhs was also completed as a sub contract,(sub contracted by a private entity, though the original client is govt agency). whether that also can kindly be considered for eligibility, if we are applying as a single entity?.

Response: It is advised to follow the eligibility criteria strictly which have approval from the competent authority of NCS-MoES, Govt. of India as described in the Bid documents (Page 6). It is not possible to change any financial clause at all as it is based on the approval by IFD, MoES, Govt. of India, New Delhi.

Bidder's Query (3): From the tender document, we understand that the mandate for the bidder is to carry out specific geophysical and geotechnical studies and incorporate the raw data including tables charts, analysis, interpretation and recommendations in its final report.

However, the tender document is not commenting upon whether the task would include preparation of certain thematic maps viz. hazard, risk microzonation etc.

Response: It is self-explanatory and detail illustration is given on page 76. It is advised to go through the Bid / RFP documents carefully. Entire issues have already been discussed during Pre-bid meeting.

Bidder's Query (4): Also, we request you to kindly inform the source for getting various Thematic Base maps viz. 1. Geological map with structural details on 1:25000 and/or 1:10000 scale as the case may be. 2. Outcrop map also showing the areas covered by soil on requisite scale. 3. Seismotectonic details to define the maximum credible earthquake which would be essential for the liquefaction potential studies etc.

Response: Bidder is requested to consult the prospective web sites and the organizations. Most of things are available on GSI Portal and different Government websites. Potential bidders have to exercise their own effort to arrange the requisite materials.

13. Potential Bidder-13

Bidder's Query (1): Ref: Clause 3.4.2: "The bidder should have been in existence in India for a minimum period of 3-years" on 31-03-2017 and registered as an Indian company.

Please clarify if a foreign company can participate in this tender? Please also provide the relevant clause in the tender in this regard. We expect that the referenced tender is an International competitive bidding enabling a foreign company to directly bid (or also through an Indian partner).

Response: Foreign company cannot participate directly in the bid as the lead bidder (please refer to page no. 6, clause 3.1). This point was also clarified in pre-bid meeting. However, the foreign company can participate along with Indian Lead Bidder as the partner or expert under JV with prior declaration about the lead Indian bidder and the team. It may be mentioned that eligibility criteria (technical experience & financial turn over) for qualifying the bid is based on the potentials of the lead Indian Bidder not the partner or of the Foreign companies.

Bidder's Query (2): Please clarify if our Indian partner is allowed to Bid in collaboration with us whereby our Indian partner can submit offer based on our experience credentials for bidding and our backup for the project execution.

Response: Please refer to the clause 3.0 at page- 6 and get clarification from the response given on your query no. 1 as above.

Bidder's Query (3): The foreign company may or may not be registered in India. In order to bring clarity to this clause we request you to kindly add in the clause "foreign company should be in business for last three years" but not necessarily present or registered in India.

Response: Nothing can be amended or modified at this stage. All the terms and conditions have been made as per GOI rules and so it should be followed. It is advised to follow the Govt. of India's rules and regulations strictly.

Bidder's Query (4): Ref: Clause 3.4.2: The turnover shall be in terms of the works related to geotechnical investigations.

It can be any or both

Clarification Required: Please share the criteria for evaluating/ascertaining the turnover in terms of works related to Geotechnical investigation. Please clarify if turnover shall be calculated / evaluated based on the total annual financial report (profit and loss account). The turnover in the financials of the company shall be for all the works done by the company within its mandate and not merely for Geotechnical projects.

Client's response: This is implicit. It is indeed entire turnover of the company involved in the requisite type of technical investigations.

Bidder's Query (5): Ref: Clause 3.4.1.1 "The bidder submitting interest for individual cities should have undertaken at least two individual projects in geotechnical studies of **similar nature** for geotechnical characterization (geological, geo-mechanical, geophysical, seismological etc. parameters) with a value of not less than Rs 25 Lakhs in the Government Domain (international/foreign Govt. Organization(s) / Central Government and/or State Government)".

Clarification Required:

Bidder's Query (6): Does the term "**of similar nature**" apply strictly for "geotechnical investigation **for microzonation studies**" or for "standard geotechnical investigation **in urban areas**" also as eligible references?

Response: It is applicable.

14. Potential Bidder-14

Bidder's Query (1): Ref: Page 6 cl 3.4.1- The bidder submitting interest for individual cities should submit supporting document that shows that bidder has undertaken at least two individual projects in geotechnical studies of similar nature for geotechnical characterization with a value of not less than Rs 25 Lakhs in the Government Domain (international/foreign Govt. Organization(s) / Central Government and/or State Government).

All other Govt. departments like RAILWAYS/MORTH/PSUs/ DAE consider private projects in par with GOVT. works for evaluation. We request to consider project of past for evaluation along with necessary escalation at the rate of 7% on simple interest P A. to update value. This clause is also adopted by other Government Departments.

Response: The work carried out for Central Govt. / State Govt. / Public Sectors of Central / State Govt./ Institutions / Organizations of Central or State Government / international / Foreign Govt. organization (s) are definitely included. If the Private Company involved in completing the said government affiliated works as the sub-contractor or the principal contractor of the any other Government companies that awarded the job for any of the Government affiliated agencies / organizations / institutions / public sectors, are eligible subject to the submission of a requisite certificate with regard to executing the government jobs / works as a sub-contractor of the principal private company contractor of the jobs received from the above mentioned Government sectors. The certificate should be attached at the time of bidding.

The criteria of eligibility are unchangeable as these have approval from IFD, MoES, Govt of India, which allows no lowering of any clause regarding eligibility criteria of bidders.

Bidder's Query (2): Ref: Page 6- In case the bidder intends to submit the for 4 cities or 8 cities how shall computation for Qualifying requirements will be arrived at?

Client's response: The bidder can submit RFP for single city, a group of 5 cities or a group of 10 cities. The bidder has to give his / her preference of cities with terms and conditions, please refer to specified clauses page no 6 (3.4.1.1; 3.4.1.2; 3.4.1.3). It can be done as per the clauses

Bidder's Query (3): Ref: Page 7 3.4.2- The bidder should have been in existence in India for a minimum period of 3-years as on 31-03-2017 and registered as an Indian company. The bidder should be a profitable company for the last 3 years and should have (i) The annual turnover for the company bidding for 10 cities, should not have been less than Rs 5-Crore in each of the last three financial years (namely for previous years FY 2014-15; 2015-16; and 2016-17, respectively.

We request you to consider year closing of 2015-16 as the financials get closed only after 30th July for Audit purposes

Response: Nothing can be amended or modified at this stage. All the terms and conditions will have to be followed as these have approval from the competent authority of IFD, MoES, Govt. of India.

Bidder's Query (4): Ref: Page 7 Cl 3.4- We request to please kindly propose ceiling to limit single bidder for minimum 6 cities, in interest that NCS-MOES more agencies will be available for execution of projects.

Response: Nothing can be amended or modified at this stage. All the terms and conditions given in the bid / RFP document will have to be followed.

Bidder's Query (5): Ref: Page 12 Cl 16.5-Completed bid submission in every respect must be made online through prescribed E-portal of Central Procurement Portal (CPP) [<http://eprocure.gov.in/eprocure/app>]. Additionally, the same completed Bid documents is also to be sent by Registered Post or Courier/Speed Post to Room No. 402, SATMET Building, IMD Campus, Lodhi Road New Delhi 110003 so as to reach the Program Head, Seismic Hazard and Risk Assessment (SHRA) Division.

We request to please consider bid submission either online or offline instead of both

Client's response: only online through CP portal and follow the procedural strictly as discussed during the pre-bid meeting held on 19th June 2017.

Bidder's Query (6): Ref: Page 13 CL 16.9- Ambiguous and Incomplete Bid(s) will be summarily rejected. Amendments and addition to Bid after opening the Bid will not be accepted.

Important

Response: Not understood the query. Every point on this issue was discussed during the pre-bid meeting so nothing can be changed regarding this.

Bidder's Query (7): Ref: Page 14-19.2 (c) The normalized bidding amount of each bidder for each city will be calculated as follows, considering average number of investigations per city (Drilling at 50 sites, expecting 90% drilling in soils and 10% in rock at each borehole; Micro-tremor at 775 sites; DHT at 10 sites; MASW at 15 sites) Mob/Demob charges + Survey cost + $(50 \times (0.9 \times \text{drilling average of soil} + 0.1 \times \text{drilling average of rocks}) + 50 \times (\text{sub-items of drilling work} \times \text{expected number}) + 775 \times \text{micro-tremor average} + 10 \times \text{DHT average} + 15 \times \text{MASW average})$

Please kindly explain costing and evaluation process-citing one example.

Response: It is self explanatory. If the bidder go through the Bid / RFP document carefully it will be easily understandable. Since it is a technical terminologies for technical investigations meant for technically sound companies.

Bidder's Query (8): Ref: Page 14 CL19.2 d- To evaluate the financial bids, L1 for each city will be decided based on the lowest normalized bid amount for each city. Please explain the process

Response: Please read the RFP carefully. It was also discussed during the pre-bid meeting that there were two steps involved in evaluation, technical and financial based on several parameters to avoid any sort of ambiguities. Technical evaluation is rigorous and the financial is as per GFR, and Govt of India guidelines.

Bidder's Query (9): Ref: Page 15 Cl 21.1- The NCS-MoES may, if needed during the examination, evaluation, and comparison of the bids, ask any Bidder in writing for a clarification of its bid. The response of the Bidder shall also be in writing. However, no clarification submitted by a Bidder on its own without asking by the NCS-MoES shall be entertained.

21.2 If a Bidder does not provide clarifications of its bid by the date and time set in the NCS-MoES's request for clarification, its bid may be rejected.

The nature of assignment being unique and not routine bidding document, hence bidder should be allowed to submit documents to strengthen the credentials later.

Response: Entire arrangements for the documents to be made at the time of bidding within the stipulated time prescribed in the Bid / Corrigendum. Nothing can be amended or modified at this stage. All the terms and conditions have to be followed.

Enough time has been given since the pre-bid meeting held on 19th June 2017 and last date of bidding is extended up to 31st July 2017 for collecting all the requisite documents regarding the bidding.

Bidder's Query (10): Page 17 LOI 15.1- An Earnest Money shall be equal to 2% (Two percent) of estimated cost Rs.....If Bidder quotes for single city, EMD amount is Rs.4 lakhs. If Bidder quote for more than one city, the EMD will be decided on Prorata basis.

We request to consider 1% for each city equivalent of Rs. 2.00Lakhs . Also please kindly allow . BG for EMD from scheduled banks

Response: Nothing can be amended or modified at all. All the terms and conditions will have to be followed as given in the Bid / RFP document.

Bidder's Query (11): Ref: Page 53 Category III- The drilling is to be carried out by Hydraulic rig only.

As the work is not continuous in nature and lead distances between the boreholes is long, Hence we kindly request to you please allow to use calax machine in drilling activity, We are insure to quality of collecting samples is good using triple tube core barrel. Moreover the drilling in rock formation is not extensive.

Response: It is advised to go strictly as per the given guidelines and specifications. No alternative tools or mechanisms are acceptable. Nothing can be amended or modified at this stage. All the terms and conditions are to be followed strictly.

Bidder's Query (12): Ref: Page 53-(iii) Shear wave velocity using Down Hole Test (DHT), up to 100 m depth along with conducting prescribed tests in same borehole as specified in Category III. The rates are to be quoted for per unit of specified components, which will be applicable for all the cities. However, final rates will be based on average as specified in LoI 16.0 (d), (e).

DHT need to have saperate borehole because of size of borehole is different size than Geotechnical borehole and depth. It is not possible to ream existing borehole, and deepen it. Many times problems of deviation are encountered in it thereby casusing inaccuracies in computation of Vs.

Response: It is well documented in RFP having self explanation at page no.132 Table 5, which is pertinent to your clarification. There is no question of adjustment of the additional depth of boreholes. There are several sets of tests prescribed in the bid documents, such as SPT, SCPT, and DHT. The boreholes of 100 m depth need to be drilled separately and it will be apart from boreholes of 30 m depths. It may please be noted that the boreholes of 100 m depth should be 10% of the total drilled boreholes. As for example if total boreholes points are identified as 60 in number then 6-boreholes would be 100 m depth for DHT and remaining 54 number of boreholes will be of 30 m depth each for other sets of investigations.

Bidder's Query (13): Ref: Page 53- In case hard rock is encountered before reaching 30 m depth, core drilling has to continue for 3 m more in the rock. Any criteria for hard rock identification.

Client's response: The definitions of rock have been clarified, based on 'Site Characterization'. Wherein, Site characterization has been spelt out to the definition of rock- soft to firm as per IBC, USGS and FEMA regulations. Any experienced driller can know what the hard-rock meant for and it will be verified by the team of scientist of NCS-MoES.

Bidder's Query (14): Ref: Page 53 Cl 5.1- Quotes are invited for all the above work components including the work component marked as OPTIONAL. For categories III, IV, and V, rates are to be quoted for per unit of specified components, which will be applicable for all the cities. Please kindly specify the unit of measurement for each category.

Response: Please refer to all of the tables of section V.

Bidder's Query (15): Ref: Page 70 Cl B , 1a Remarks column- Some laboratory tests to be conducted at designated laboratories for validation purposes will require collection of suitable samples and arrangements for delivery at the specified laboratories; therefore, separate rates are to be quoted for handling and testing charges. Please kindly keep this item rate on reimbursable basis rather than quoted price

Response: Nothing can be amended or modified at this stage. All the terms and conditions have been frozen as described in the pre-bid meeting as well.

Bidder's Query (16): Ref: Page 78 ii. The Multi-channel Analysis of Surface Waves (MASW) method is a nondestructive seismic method to evaluate linear elastic modulus of underground materials. What is the length of MASW spread profile and what was the depth of MASW data required.

Response: It is self-explanatory and it was also discussed in detail during the Pre-bid meeting

Bidder's Query (17): Ref: Page 78 , Note- With limitations in the sampling system and boring techniques used in our country it might not be possible to extract undisturbed sample at 3 m intervals from all of 500 locations as per IS code. Not all undisturbed samples are really undisturbed. There is every possibility that proper extraction of the sample for cyclic tri-axial test may fail. Under so many uncertainties, only few samples may be possible to be tested in cyclic tri-axial system. Therefore, exact no. of laboratory test will be decided after eliminating all errors encountered in the process. Considering the importance of project it is recommended to use Mazier's Samplers for proper UDS sampling even in hard soils.

Response: It was discussed in detail during the pre-bid meeting as well. It is not considered; whatever is written that may please be followed.

Bidder's Query (18): Ref: Page 78- Please clarify the data evaluation process during execution. Please kindly let us know whether resources will idle due need of decisions. (Evaluation of reprot). We presume Geotechnical and geophysical investigations are to be completed in one stroke rather peicemeal.

Response: Please refer to section VIII (GCC)

Bidder's Query (19): Ref: Page 133 Note - Please kindly elaborate stages of payments

Response: Please refer to section VIII (GCC). The bidder is advised to go through RFP document carefully.

Bidder's Query (20): Ref: Page 143 7.2 Time for Completion
The Contractor shall complete the whole of the Works within the 12/24 months and maintain proportionate progress at all times. Failure to complete the work (if any) may attract the provisions for compensation for delays.

As the works are to be carried out in public places, it is likely to cause delay in execution of works due to non availability sites. Please advise how this shall be accommodated in contract. Please kindly inform the time frame for evaluation of preliminary report from your end after execution of works.

Response: The MoES will give authorization letters to the successful bidders in Consultation with district & state officials. Acquiring the sites will be individual effort of the bidders. Please refer to section VIII (GCC).

If one has to take 10-cities; parallel it should complete within 12/24 months the entire quantum of the work awarded to the successful bidders as the extent of manpower is required as per the city what we mentioned in the bid document and answered. It is, therefore completion period of the assigned job for qualified vendor as per the delivery of the quality product is minimum of 12 months and maximum of 24 months. Beyond this period of completion, it may attract the provision of compensation for delays, which should be strictly followed.