

Queries and Clarifications made during Pre-BID meeting held for Procurement of Scientific Equipment for
 NCSCM, Chennai, on 25-01-2017

NPMU – G-46

Lot 1: 30% HpGe based Gamma Ray spectrometer

Query Raised by : M/s. ELECTRONIC ENTERPRISES (I) PVT LTD

Tender Specs	Queries	Clarification/ Response
Ultra Low Background shielding	Ultra low background involves detector components also. So please provide us clarification that do you need Ultra Low Background or Low Background For your information ULTRA Low background required to quality each and every component of detector. So that cost also will be very high	May be revised as: "Low Background shielding"
Lead shield gap	Inside Lead shield gap should be specify. For standard we will provide Mernali beaker dimensions, Which may not be suitable for your applications. For better understanding drawing should be provide	May be revised as: The gap between top of the detector head and inside of the lead shield swing-top door should be minimum of ~20 cm (Lead shield body should have 6 inches Lead thickness).
Resolution 750 ev at 122Kev	But standard is 1.2-1.4 Kev at 122 kev	May be revised as: ~1.2-1.4 Kev at 122 kev
High voltage module up to 6Kv	HV will be suitable to DETECTOR	May be revised as: "HV should be suitable to DETECTOR"
MCS	In Application specified PHA. MCS option may be removed.	Multichannel Analyzer may be removed



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Lot 1: 30% HpGe based Gamma Ray spectrometer

Query Raised by : M/s. Aeronics , Bangalore

Tender Specs		Queries	Clarification/ Response
Volume	200cc	190 to 220cc	May be revised as: "190 to 220cc"
Energy Range	≥ 20KeV inside the well and > 40Kev outside	Spectroscopy from 10 keV to 10 MeV	May be revised as: "Spectroscopy from 10 keV to 10 MeV"
well Diameter	16mm	15.5 - 16mm	May be revised as: "15.5 - 16mm"
Relative Efficiency	35%	Not calculated in most manufacturers	Approximately 35%
Energy Resolution	<750eV at 122KeV	1.4KeV at 122KeV	May be revised as: "~1.1KeV at 122KeV"
Endcap Diameter	89mm	83-95mm(accommodates 1litre Marinelli)	May be revised as: "83-95mm"
Ultra Low background lead shield		Detector requested is low background and the shield requested is Ultra low background, need to make the detector also ultra-low background for such low level application	May be revised as: "Suitable Low background lead shield with Cu-tin liner.; Pb210 emitted by the lead shield should be completely stopped entering the detector. A suitable steel table to keep the lead shielding also should be provided. For sample chamber access, the shielding is equipped with a swing-top door, allowing it to fit tightly



				against the shield body. 15 cm (6 in.) lead thickness, Should be provided capable of stopping lead K-shell x rays in the energy range of 75-85 keV."
	Liquid Nitrogen Sensor			May be removed
	Digital Level display		Not realistic and not stable. Hence not required	May be revised as: Digital Level or any other scientific display
	NIMBIn			
	High Voltage Power Supply			
	Outputs	± 30 to ± 6000V adjustable; 3--uA output	± 5000V with 100uA should be more than enough for the detector to operate	May be revised as: "± 30 to ± 5000V with 100uA, adjustable; 3--uA output
	Indicators	digital Display	Panel bar graphs also universal and operates round the world	May be revised as "Panel bar graphs/digital display
	Spectroscopy amplifier			
	Gain Range	x3000	x1500 is enough to cover the entire range of energy range requested	May be revised as: "at least x1500
	Multichannel Analyzer			
	MCS		the MCA will be used in PHA mode to investigate nuclear γ-ray spectra, and in MCS mode to study statistical	Multichannel Analyzer (MCS) may be removed



			distributions. The subject of application here is identification and determination of low energy gamma radionuclides, MCS is not required for your application	
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Lot 2: 100% HpGe based Gamma Ray spectrometer

Query Raised by : M/s. Aeronics , Bangalore

Tender Specs	Queries	Clarification/ Response
SAMPLE CHANGER SUPPORT	We request you to please remove SAMPLE CHANGER SUPPORT. Because as per your application this may not be required. This is restricting to only one specific product	May be revised as : Sample changer support (optional)
SOURCES	We request you to please consider SOURCES to be offered as a optional. Because as discussed lot of approvals involved in this.	May be revised as : optional
MCS	In Application specified PHA. MCS option may be removed.	Multichannel Analyzer (MCS) may be removed

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Lot 2: 100% HpGe based Gamma Ray spectrometer

Query Raised by : M/s. ELECTRONIC ENTERPRISES (I) PVT LTD

	Tender Specs		Queries	Clarification/ Response
	Liquid Nitrogen Sensor		Not realistic and not stable. Hence not required	May be removed
	Digital Level display		Detector requested is low background and the shield requested is Ultra low background, need to make the detector also ultra-low background for such low level application	May be revised as: Panel bar graphs/ Digital Level display or any equivalent display
	Ultra Low background lead shield Digital Signal Analyzer			May be revised as: Low background lead shield
	MCS		the MCA will be used in PHA mode to investigate nuclear γ -ray spectra, and in MCS mode to study statistical distributions while the subject of application here is identification and determination of lot	Multichannel Analyzer may be removed



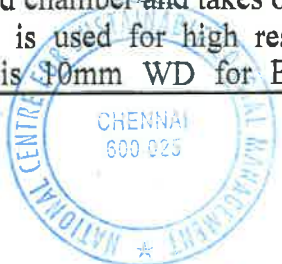

Lot 3: Environmental Scanning Electron Microscope

Query Raised by : M/s. Advance Scientific Equipment, Chennai

	Tender Specs	Queries	Clarification/ Response
	<p>Resolution(SE)</p> <p>2.0 nm or better in High Vacuum mode at 30kV, 3.0 nm or better in low vacuum mode for observation of samples without coating and 8nm or better @1kv.</p>	<p>8nm or better @ 1KV in High Vacuum mode at 30kV, 3.5 nm or better in low vacuum mode for observation of samples without coating.</p> <p>Reason for Request: Though we can Supply LAB6, we would like to highlight that</p> <p>As there is not much use of Lab6 compared to Tungsten in terms of particle or feature size (>40nm) in the lab prepared sample. Except for brightness and tip life Tungsten give more than 50 to 100 working hours and LaB6 give more than 500 working hours. But LaB6 has no shelf life and replacement cost is expensive compared to Tungsten Further in LV mode there is no improvement in resolution. (TESCAN guarantees more than 200 working hours for Tungsten filament). And main disadvantage is, if you want to interchange from W filament to LAB6 filament you have wait for 8 hours for the vacuum to reach</p> <p>This is common to any EM manufacturer</p>	<p>May be revised as: "3nm or better in High Vacuum mode at 30kV, 3.5 nm or better in low vacuum mode at 30kV for observation of samples without coating".</p>
	<p>Pressure range</p> <p>S.no 3. High pressure mode at least 2800pa with water vapor system suitable for observation of Hydrated sample.</p>	<p>High pressure mode at least 2000pa with water vapour system suitable for observation of Hydrated sample.</p> <p>Reason for Request:</p> <p>It is only on particular manufacturer can give whereas with majority of others it 2000Pa</p>	<p>May be revised as: "High pressure mode at least 2000pa with water vapour system suitable for observation of Hydrated sample.</p>




<p>Stage Specification</p> <p>5 axis motorized stage with movement facility for X = 120 mm or higher, Y = 120 mm or higher, Z = 5 – 50 mm or higher, Tilt = 0 to 70°, Rotation = 360° (continuous) .Facility of stage co-ordinate and recall must be provided.</p> <p>Stage navigation software must be provided.</p>	<p>5 axis motorized stage with movement facility for samples of minimum diameter of 140mm. Facility of stage co-ordinate and recall must be provided.</p> <p>Stage navigation software must be provided.</p> <p>Reason for Request:</p> <p>It is X, Y, Z movements differ manufacturer to manufacturer in relation to chamber geometry and size. We would rather recommend to specify your maximum Sample Size, considering all your applications.</p>	
<p>Detectors</p> <p>4. Ionization based secondary electron detector for use in low vacuum mode.</p>	<p>Ionization based or equivalent secondary electron detector for use in low vacuum mode.</p> <p>Reason for Request:</p> <p>Every manufacturer has their own technology for Low vacuum or Variable pressure SE detector, We deploy differential pumping technology instead of ionization and we also achieve the best resolution as per tender requirements. Ionization is a technology of a particular brand.</p>	<p>May be revised as: “Ionization based or equivalent secondary electron detector for use in low vacuum mode”</p>
<p>X-ray analytical working distance</p> <p>9 mm or better to get High resolution imaging & Micro analysis in same working distance.</p> <p>Design should ensure only a very small interaction path (in VP mode) of 2mm or better for the electron beam in the ambient</p>	<p>10 mm or better to get High resolution imaging & Micro analysis in same working distance.</p> <p>Reason for Request:</p> <p>Working distance is based on the mechanical design of column and chamber and takes off angle of EDS. In practical short WD is used for high resolution of the sample and optimum is 10mm WD for EDS analysis for obtaining</p>	<p>May be revised as: “~10 mm or better to get High resolution imaging & Micro analysis in same working distance”</p>



	environment of the chamber in both imaging and elemental analysis applications.	maximum. Actually an X-ray count plays an important role for obtaining the best X-ray spectrum of the sample under observation. However one can image the sample and acquire EDS spectrum at same WD.	
Chamber		Should be big enough to accommodate 250mm diameter or more sample size	May be revised as: Should be big enough to accommodate 200-250mm diameter or more sample size.




Lot 4: Portable Spectro-radiometer with accessories

Query Raised by : M/s. Elron Instrument Company Pvt. Ltd, Delhi

	Tender Specs	Queries	Clarification/ Response
	Detectors: Photodiode array and separate graded InGaAs (thermoelectrically cooled)	You have not clarified the how many element arrays are required. Since standard is 512 element Si photodiode array for 350-1000nm and 256 element TE cooled InGaAs Photodiode Array for 1000-25000nm. Please specify	May be mentioned as : "512 element Si photodiode array for 350-1000nm and 256 element TE cooled InGaAs Photodiode Array for 1000-25000nm". <i>Reply</i>
	Diffraction grating	Specification do not specify about diffraction grating, since it is an important factor also makes a huge difference in cost of the equipment also. Most of the equipment comes with 2 diffraction gratings, however, our system comes with 3 diffraction gratings. So, we suggest you mention the diffraction grating 2 or more	May be mentioned as : The diffraction grating should be 2 or more.

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Lot 6: In situ CH4 Measurement System

Query Raised by : M/s. Elron Instrument Company Pvt. Ltd, Delhi

	Tender Specs		Queries	Clarification/ Response
	High quality continuous monitoring of in situ CH ₄		Instrument should be capable of High quality continuous monitoring of in situ CH ₄ . Please specify the type of in situ measurement i.e. open path or enclosed path	May be mentioned as : Instrument should be capable of High quality continuous monitoring of in situ CH ₄ (for the open path/equivalent in situ measurement).
	Mounting arrangements		Your specification is silent about mounting arrangements, which has to be provided along with the system, please specify the height of installation, terrain of measurement and also location. Since this is a field instrument all these three factors effect while bidding for the equipment	May be mentioned as : Mounting arrangements: Tripod stand of approximately 3 m height should be provided with the equipment.

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Lot 7: Eddy Covariance CH₄/CO₂/H₂O Flux Measurement System

Query Raised by : M/s. Elron Instrument Company Pvt. Ltd, Delhi

Tender Specs	Queries	Clarification/ Response
Measurement Range 0-50 ppm	The measurement range which you have asked is very high. The measurement Range should be 0-25 ppm @ 25°C and 0-40 @ 25°C. We would like to request you to kindly change this. Since 0-50ppm range is not required as the CH ₄ concentration is very less in the ambient conditions	May be revised as: "The measurement range should be 0-25 ppm at -25°C and 0-40 ppm at 25°C or better".
Soil temperature sensors – 3 nos	Since LICOR as standard provide a combines soil temperature & soil moisture sensor, will it be acceptable please clarify	Combined soil temperature and moisture sensor will also be considered
Diaphragm Pump	Since you have asked for open path system, and the Diaphragm pump is only required for enclosed path systems, we do not feel you require diaphragm pump, we suggest you to kindly remove this from the specification	May be revised as: "Diaphragm Pump (Optional), if required for the in situ measurements"
10ft Tower/Tripod with accessories	Please specify the location where this tower/tripod will be mounted and the terrain where it will be installed. Please note that the height of the Tower is decided based on Canopy Height. Please specify the average canopy height. Standard tower height is 1.5 times the height of canopy	May be revised as: Tripods stand (~3-4 m) for mounting the eddy covariance system on a permanent tower/plane surface.
Power supply arrangements	Your specification is silent about, power supply arrangements. Kindly specify who will make the arrangement for power supply. Typically, these instruments are used in remote locating using solar panels. Please specify your requirement	May be revised as : "Suitable solar panels capable of supplying power required for the continuous measurements by the Eddy covariance systems along with the all other associated sensors".



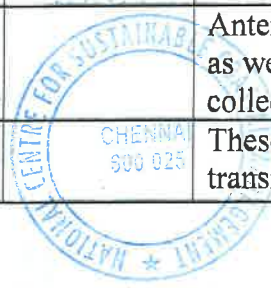
Lot 8: Ground Penetration Radar

Query Raised by : M/s. Aimil Ltd, Chennai

	Tender Specs		Queries	Clarification/ Response
	Control System			
1	GPR should be based on Time Domain Principle (pulsed type) to get the One depth of penetration from the acquired field data	One	GPR should be based on Time Domain Principle (pulsed type) to get the depth of penetration from the acquired field data	No Change
2	The System should run through battery with low power consumption and rechargeable so that it can run more than 4 to 5 hrs operation from the 24AH battery		The System should run through internal rechargeable battery with low power consumption 4 to 5 hrs operation	May be revised as: "The System should run through internal rechargeable battery with low power consumption that support 4 to 5 hrs operation"
3	This system should be compatible to lower as well as higher frequencies antennas for deeper & shallower profiles.		This system should be compatible to lower as well as higher frequencies antennas for deeper & shallower profiles.	No Change
4	It should have computer controlled voltage and temperature stabilized time and amplitude.		The system should have built-in computer function keys for field operation. No need of Laptop for data collection.	May be revised as: "The system should have built-in computer function keys/ computer operated functions for data collection."
5	The system should have rugged digital video display with day & night visibility.		The system should have built-in rugged display for field data collection.	May be revised as: "The system should have built-in rugged display for field data collection."
6	Data collection should be stepped mode as well as continuous mode with ability to start & stop anytime.		Data collection should be stepped mode as well as continuous mode with ability to start & stop anytime.	No Change
7	Data collected must be in an open format so that other software can be used for processing and interpretation.		Data collected should be converted to ASCII or any other open format to process the data using the third party software if	May be revised as: "collected data should be converted into ASCII or any other open format to process the data"



			required.	using the third party software if required."
8	It should have integrated support to GPS.		It should have support to GPS.	May be revised as: "It should have support to GPS."
9	It should be weather proof and support temperature range -40 degree C to +50 degree Centigrade.		The system should work in Indian Environment. Proof of list of users should be provided.	May be revised as: "The system should work in Indian Environment. Proof of list of users should be provided."
11	System Performance: IS0dB or more		The system should be a 16 or 32-bit system	May be revised as: "The system should be a 16 or 32-bit system"
12	Time Range: up to 16,000 nano seconds or more.		Time Range: 8000 or 16,000 nano seconds or more.	May be revised as: " 8000 or 16,000 nano seconds or more."
13	Sampling: Digital Equivalent Time Sampling (DETS)		Sampling should be 220 or 800Sample/sec or more.	May be revised as: "Sampling should be 220 or 800Sample/sec or more."
14	Stacking: -32,000 or more		Stacking: -8000 or 32,000 or more	May be revised as: "-8000 or 32,000 or more"
Antennas				
1	Antenna type: Biastatic mode detachable (Tx.Rx) antenna (to utilize both Common Offset and Common Mid Point technique of survey).		Antenna type: Biastatic mode detachable (Tx.Rx) antenna (to utilize both Common Offset and Common Mid Point technique of survey).	No Change
2	1000MHz, 500MHz, 100MHz, 50MHz, 25 MHz and 12.5 MHz to get deepest depth of penetration (-250-300m).		The antennas should fulfil the frequency ranges as below: 1000MHz/900MHz, 500MHz/400MHz, 100MHz/80MHz, 50MHz/40MHz, 25MHz/20MHz, 15MHz/12.5MHz.	May be revised as: " The antennas should fulfil the frequency ranges as below: 1000MHz/900MHz, 500MHz/400MHz, 100MHz/80MHz, 50MHz/40MHz, 25MHz/20MHz, 15MHz/12.5MHz."
3	All antennas should be used in Hand Tow and as well as Cart for continuous data profile collection.		Antennas should be used in Hand Tow and as well as Cart for continuous data profile collection.	No Change
4	These can be used for reflection profiling, transillumination, multioffset, CMP and W		These can be used for reflection profiling, transillumination, multioffset, CMP and	No Change



	ARR surveys for rough, poorly accessible areas.		WARR surveys for rough, poorly accessible areas.	
5	Integrated support to GPS, Odometers and Fiducial Markers.		Support to GPS, Odometers and Fiducial Markers.	No Change
6	Data collection in 2-D, and 3-D modes.		Data collection in direct 2-D, and 3-D modes	May be revised as: "Data collection in direct 2-D, and 3-D modes."
	Software		Software: This should be opted for multi user license, means they can use the software in at least TWO or FIVE computers at the same time.	May be revised as: "be opted for multi user license (at least two licences for software)"
1	Line scan display, with zooming in/out facility		Line scan display, with zooming in/out facility	No Change
2	Should show raw and applied user gam data simultaneously and dynamically with mouse movement.		Should show raw and applied user gam data simultaneously and dynamically with mouse movement.	No Change
3	Mouse cursor can be used for display position, depth, time range, GPS information, and signal amplitude of the point in the data image in digital format, i.e.; with their numbers.		Mouse cursor can be used for display position, depth, time range, GPS information, and signal amplitude of the point in the data image in digital format, i.e.; with their numbers.	No Change
4	Topography correction can be applied using the elevation from users.		Topography correction can be applied using the elevation from users.	No Change
5	Should have the facility to reverse the line direction to easily compare lines in a zig-zag pattern.		Should have the facility to reverse the line direction to easily compare lines in a zig-zag pattern.	No Change
6	Should have facility of Linked windows scrolling.		Should have facility of Linked windows scrolling.	No Change
7	Facility to measure the velocity from hyperbolas and CMP data files.		Facility to measure the velocity from hyperbolas, CMP data files, Multi-Layer velocity estimation and Migration.	May be revised as: "Facility to measure the velocity from hyperbolas, CMP data files, Multi-Layer velocity estimation and Migration."

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8	It should have image optimization of gain, color palette, contrast and sensitivity, as well as wiggle trace options for better interpretation.		It should have image optimization of gain, colour palette, contrast and sensitivity, as well as wiggle trace options for better interpretation.	No changes
9	Can be exported to many formats with full clipboard integration		Can be exported to many formats with full clipboard integration	No changes
	3-Dimensional Software:	One	3-Dimensional Software:	
1	It should create volume data in HOF and CSV file formats for use in third-party visualization programs		It should create volume data in HOF and CSV or other file formats for use in third-party visualization programs	May be revised as: "It should create volume data in HOF and CSV or other file formats for use in third-party visualization programs"
2	Images can be saved in graphic image files, such as BMP, JPG etc.		Images can be saved in graphic image files, such as BMP, JPG etc.	May be revised as
Schedule of requirement:				
1	Complete GPR System fulfilling the above basic needs Rechargeable. Battery, Charger and relevant cable for complete connectivity.		Complete GPR System fulfilling the above basic needs Rechargeable. Battery, Charger and relevant cable for complete connectivity.	No changes
2	Antenna with center frequencies: 1000MHz, 500MHz, 250MHz, 100MHz, 50MHz, 25 MHz and 12.5 MHz for deepest penetration with all relevant cables, transmitter, receiver, rechargeable battery, charger, tow handle, etc. to be used for subsurface imaging on Land. It may be possible to have only GPR for land imaging so Radar for different applications should be mentioned separately with cost.	One for each Frequency	Antenna should fulfil the Centre frequency ranges as below: 1000MHz/900MHz, 500MHz/400MHz, 100MHz/80MHz, 50MHz/40MHz, 25MHz/20MHz, 15MHz/12.5MHz; for deepest penetration with all relevant cables, transmitter, receiver, rechargeable battery, charger, tow handle, etc. to be used for subsurface imaging on Land. It may be possible to have only GPR for land imaging so Radar for different applications should be mentioned separately with cost.	May be revised as: "Antennas offered should be able to meet the requirement of deepest depth of penetration. And antennas meeting following frequency range should be provided: a. 900MHz ~ 1100MHz range b. 400 MHz ~ 550MHz c. 80MHz ~ 100MHz d. 40~50MHz e. low frequency antenna meeting range of 12.5MHz and 25MHz Dual frequency antennas are



				permitted.”
3	Global Position System with other accessories for its successful operation.	One No.	Global Position System with other accessories for its successful operation. Accuracy: sub-meter Horizontal Accuracy.	May be revised as: “Global Position System with other accessories for its successful operation. Accuracy: sub-meter Horizontal Accuracy.”
4	4-wheel cart with compatibility to all antennas mentioned above	One No.	3 or 4-wheel cart with compatibility to all antennas mentioned above	May be revised as: “3 or 4-wheel cart with compatibility to all antennas mentioned above”
5	Software: 2-Dimensional and 3-Dimensional fulfilling the above mentioned facilities.	1 License Each with multi-user facility	Software: 2-Dimensional and 3-Dimensional fulfilling the above mentioned facilities.	No changes
6	Carrying Case		Carrying Case	
7	The system should be rugged and hermetically sealed to avoid moisture, dust, and rain proof		The system should be rugged and hermetically sealed to avoid moisture, dust, and rain proof	No changes

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Lot 8: Ground Penetration Radar

Query Raised by : M/s. Stanlay, New Delhi

	Tender Specs	Queries	Clarification/ Response
1	Antenna type : Bi-static detachable (Tx, Rx) antenna (to utilize both common offset and common midpoint technique)	avoid any misrepresentation by any vendor, please add to your tender specification, the following point to ensure that all vendors have correctly understood the requirement and are quoting similar items with respect to BOQ. In case any antenna offered is mono-static, 2 Nos of such mono-static antennas should be offered. In addition, the mono static antennas should be configurable to be utilized in bi-static mode.	May be revised as : : Bi-static detachable (Tx, Rx) antenna (to utilize both common offset and common midpoint technique). In case any antenna is mono-static, 2 Nos of such mono-static antennas should be offered. In addition, the mono static antennas should be configurable to be utilized in bi-static mode.
2	1000MHz, 500MHz 100MHz, 50MHz, 25MHz and 12.5MHz	To accommodate other vendors , to ensure that antenna types should be broad based to meet application requirement and also allow new technology dual frequency antennas and finally achieve best economy, we request you to modify tender specification on antennas as follows : “Antennas offered should be able to meet the requirement of deepest depth of penetration. And antennas meeting following frequency range should be provided: a. 900MHz ~ 1100MHz range b. 400 MHz ~ 550MHz c. 80MHz ~ 100MHz d. 40~50MHz e. low frequency antenna meeting range of 12.5MHz and 25MHz	May be revised as “Antennas offered should be able to meet the requirement of deepest depth of penetration. And antennas meeting following frequency range should be provided: a. 900MHz ~ 1100MHz range b. 400 MHz ~ 550MHz c. 80MHz ~ 100MHz d. 40~50MHz e. low frequency antenna meeting range of 12.5MHz and 25MHz Dual frequency antennas are permitted.”



		Dual frequency antennas are permitted.	
3	All antennas should be used in hand tow and as well as cart for continuous data profile collection	As low frequency antennas are based on dipole antennas and are therefore cannot be based on cart, suggest tender specification to be changed to : All antennas 80MHz to 1000MHz should be used in hand tow and	May be revised as: "All antennas from 80MHz to 1000MHz should be used in hand tow and rest of the antennas in cart and in hand tow for continuous data profile collection



Commercial Clarifications

	Tender Specs	Queries	Clarification/ Response
	ITB point No 14.6(b[iii])	<p>You have asked for CIP prices, however, in this point you are asking for FCA or CPT charges as well. Please specify whether prices quoted should be FCA/CIP. If you require both please specify</p> <p>Since you have asked for FCA/CIP prices, how will you be releasing the order on FCA basis or CIP basis. If you will be placing the order on FCA basis kindly specify your agents. In the event, you place the order, on CIP basis, then who will do the custom clearance/delivery. Please specify</p> <p>In case you require us for doing custom clearance and delivery on your behalf, will you be able to reimburse the custom duty, custom clearance and delivery charges in Indian Rupees. Also, will you be providing custom duty exemption document</p>	<p>ITb-14.6-b(iii) Says that , “in addition to the CIP prices specified in (b)(i) above, the price of the Goods to be imported may be quoted FCA(named place of destination) or CPT(named place of destination), if so specified in the BDS.” In the BDS it is asked CIP price. So the price is CIP Chennai only.</p>
	ITB 21.2	<p>Bid Security: you have asked for bid security to be valid for 28 days more than the validity of the offer. Since, DD issued by Banks are only valid for 90 days. Is it acceptable to you that we submit the Bid security form of FDR in the name of Director NCSCM, Chennai. Please specify</p>	<p>DD with validity of 90 days is accepted as Bid Security.</p>
	ITB22.1	<p>You have asked for Bid to be submitted in Original and Duplicate. However in Bidding Data Sheet you have asked for original bid with 2 copies. Kindly specify whether you require bid in Duplicate or Triplicate. Also, do all the copies required to be inked signed by the bidder or Xerox of original will be accepted</p>	<p>Bid in Triplicate is required. All papers need to be inked signed. Xerox will not be accepted .</p>
	ITB section VII point 21	<p>List of related services and completion schedule</p>	<p>CMC is required. Mishandling, theft , physical damage and act</p>



	<p>You have asked for 3 years CMC for each lot, however, please note that items mentioned in Lot No. 4,5,6,7 all are field instruments which will be installed in open fields, for which estimation of CMC cost is not possible. Since many uncontrollable factors may constitute for non-functioning of the equipments such as natural disasters or mishandling etc which we are unable to judge at this moment</p> <p>We request you to kindly change the clause of 3 years CMC to 3 year AMC. We can provide you the manufacturers certificate for the availability of spares and support for 10 years against the items quoted (if required)</p> <p>However, also if you cannot remove the clause of CMC, we shall request you that supplier or manufacturer shall not be held responsible for any physical damage, mishandling, Theft or any act of god incidence which may cause problem to the instrument. CMC shall only be effective in the case of any manufacturing or functioning defect. Please clarify</p>	<p>of god is not covered under CMC.</p>
	<p>In case of Lot No. 5,6, & 7 some of the components are to be supplied locally by us, will you be able to provide separate purchase order for the components which shall be supplied locally by us in Indian Rupees</p>	<p>YES</p>
<p>ITB Section VI Point 5</p>	<p>You have asked for Inspection and tests. Please specify when and where this inspection and test will be done. Since Lot 6 & 7 are field instrument. Inspection and test can only be done in the field. After installation. Kindly specify the location and duration of inspection for each date.</p>	<p>Inspection and testing will be done at NCSCM Chennai.</p>