

NIQ for engaging Onsite Calibration agency for EMC Lab (Jan 2023)

Subject: NIQ for engaging Onsite Calibration agency for EMC Lab– Global Automotive Research Centre (GARC), Plot E1, SIPCOT Industrial Growth Centre, Oragadam, Mathur Post, Sriperumputhur Taluk, Kanchipuram Dist.602105.

Dear Sir,

1. Global Automotive Research Centre (GARC) (a division of NATRIP Implementation Society Govt. of India), located at Oragadam near Chennai, Tamilnadu. GARC has been authorized as test agency under CMVR 126 by Ministry of Road Transport & Highways, Govt. of India. GARC has the full-fledged R&D and Homologation Test Facilities including the Test Tracks to certify all category of vehicles, systems and components as per national and international standards. Also GARC, has got the accreditation from NABL as per ISO/IEC 17025:2005 for General Requirements for the Competence of Testing and Calibration Laboratories for its Certification Lab (Mechanical & Electrical Discipline).

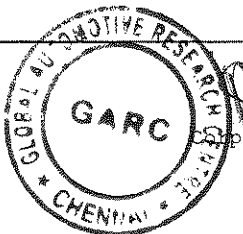
2. The sealed bids titled “Quotation “With ref no of the document addressed to the “Procurement Officer” Global Automotive Research Centre (GARC), Plot E1, SIPCOT Industrial Growth Centre, Oragadam, Mathur Post, Kanchipuram Dist-602105, Tamil Nadu, INDIA” shall reach by 26.12.2022 @ 3.30 pm.

3. Detailed requirements are as per Scope of work.

4. List of BOQ, is attached as an Annexure-1,

Deliverables:

1. It shall be the responsibility of the successful bidder to complete the job as per the technical specifications stated herein in at Global Automotive Research Centre (GARC).
2. The rates quoted by the bidder shall remain firm till the completion of the job/work order and price variation shall not be entertained.
3. The bidder should ensure that the detailed prices with break-up of costing are quoted clearly for the item/work.
4. The calibration work at site to be completed within 14 days from the issue of the purchase order.
5. The bidder should provide softcopy & hardcopy of the calibration certificates within 14 days from the completion of the calibration work.
6. The prices should be quoted both in figures and words and quotations must be free from any kind of overwriting, alteration and correction.
7. At the time of payment of bills, the taxes liable to be deducted, if any, shall be deducted at source as per Government rules and guidelines as may be prevailing at the time of payment.
8. Taxes / GST, if any, should be clearly mentioned in the bids.



Ref. No.8/GARC/EMC/2022-23/359/NIQ

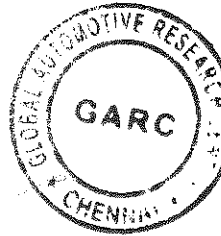
14/12/2022

9. The quoted price shall be all inclusive (including mobilization, travel charges, documentation, etc...)
10. Sub-letting of Work: The firm shall not assign or sublet the work or any part of it to any other person or party.
11. Quotation should be valid for at least 90 days
12. Bidders are eligible to bid based on the new amendment issued on Public Procurement (Preference to Make in India) pursuant to Rule 153(iii) of the General financial rules.
13. Period of delivery to be strictly adhered.
14. The Competent Authority of this office reserves the rights to reject any or all the quotations without assigning any reason and the decision of the competent authority of this office shall be final and binding.

5. Terms of Payment:

1. 100% payment shall be released after completion of work & issue of the calibration certificates, as certified by engineer incharge of the lab.
2. Payment shall be released within 45 days from the date of submission of work completion report signed by engineer incharge of the lab.
3. At the time of payment of bills, the taxes liable to be deducted, if any, shall be deducted at source as per Government rules and guidelines as may be prevailing at the time of payment
4. All payments to the Vendor shall be made by Account payee cheque or RTGS in Indian Rupees
5. Liquefied Damages: In the event of delay on part of the supplier/contractor to achieve completion of the work within the time lines as specified in the quote, the supplier/contractor liable to pay to GARC a sum equal 0.5% of the contract price for every week of delay, or part thereof, subject to the maximum of 10% of the contract price, for such default as liquefied damages, which the supplier/contractor is not a penalty but a genuine pre-estimate of loss and damage likely to be suffered and incurred by GARC for every day, or part thereof, that such delay subsists till the date of actual completion. GARC may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the supplier/contractor.

GARC shall be at liberty to withhold any of the payments in full or in part subject to recovery of taxes including TDS as applicable.

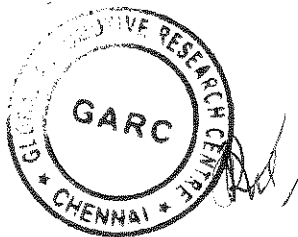


[Signature]
Rajeswar Tripathy
Procurement Incharge

Annexure-1

BOQ: NIQ for engaging Onsite Calibration agency for EMC Lab (Jan 2023)

Attached in separate page as attachment.



Annexure-II

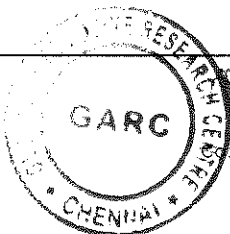
MANDATE FORM FOR PAYMENT DETAILS OF ACCOUNT HOLDER

Name of the Vendor/Beneficiary	
Name of the Bank Account Number	
IFSC Code	
PAN Number	
GST Number (if applicable)	
Address (Including City, Pin code etc.)	
Mobile No./email id	

I hereby declare that the particulars given above are correct and complete.

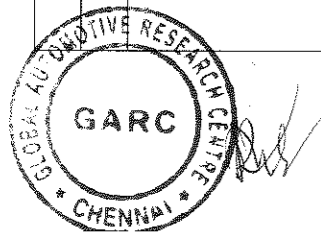
DATE:

SIGNATURE WITH SEAL



Calibration cost estimation sheet - JAN 2023

S.No	GARC internal reference		Name of Instrument / Equipment	Mfg. Serial No.	Model	Make	NABL/IEC 17025 accredited Cal parameters	Yes/No	Best CMC (Calibration & Measurement capability)	Cost for On-site calibration
	File No.	Asset Number / UID								
1	51	EMC/RE/LISN/668	Line Impedance stabilization network (LISN)	8124-668	NNBM8124	schwarzbeck	1) Insertion loss - EUT port to RF port 2) Isolation loss - Mains port to RF port 3) Impedance - EUT Port with 50Ω load 4) Phase angle - EUT port with 50Ω load			
2	52	EMC/RE/LISN/669	Line Impedance stabilization network (LISN)	8124-669	NNBM8124	schwarzbeck	1) Insertion loss - EUT port to RF port 2) Isolation loss - Mains port to RF port 3) Impedance - EUT Port with 50Ω load 4) Phase angle - EUT port with 50Ω load			
3	18	EMC/RI/ESPM/MY50000497	EPM Series Power meter	MY50000497	N1914A	Agilent	1. Power Level Linearity (+13dBm to -60dBm) 2. Cal output			
4	19	EMC/APS/MY53460004	E-Series Average Power Sensor	MY53460004	E9304A	Agilent	1. VSWR 2. Calibration Factor			
5	20	EMC/APS/MY51020022	E-Series Average Power Sensor	MY51020022	E9304A	Agilent	1. VSWR 2. Calibration Factor			
6	21	EMC/RI/ESPM/MY53520006	EPM Series Power meter	MY53520006	N1914A	Agilent	1. Power Level Linearity (+13dBm to -60dBm) 2. Cal output			
7	22	EMC/RI/PSPM/MY54010016	P-Series Power meter	MY54010016	N1912A	Agilent	1. Power Level Linearity (+13dBm to -60dBm) 2. Cal output			
8	23	EMC/APS/MY51020014	E-Series Average Power Sensor	MY51020014	E9304A	Agilent	1. VSWR 2. Calibration Factor			
9	24	EMC/APS/MY53460009	E-Series Average Power Sensor	MY53460009	E9304A	Agilent	1. VSWR 2. Calibration Factor			
10	25	EMC/WPS/MY51010003	Wideband Power Sensor	MY51010003	N1921A	Agilent	1. VSWR 2. Calibration Factor			
11	1	EMC/RE/ PA/121052	Preamplifier	121052	PA-02-001-1000	TDK RF	1. Output Gain 2. Output Gain Flatness 3. Second Order Harmonics 4. Third Order Harmonics 5. VSWR			
12	2	EMC/RE/ PA/121055	Preamplifier	121055	PA-02-001-1000	TDK RF	1. Output Gain 2. Output Gain Flatness 3. Second Order Harmonics 4. Third Order Harmonics 5. VSWR			
13	3	EMC/RE/ PA/121060	Preamplifier	121060	PA-02-0118	TDK RF	1. Output Gain 2. Output Gain Flatness 3. Second Order Harmonics 4. Third Order Harmonics 5. VSWR			
14	4	EMC/RE/ PA/121063	Preamplifier	121063	PA-02-0118	TDK RF	1. Output Gain 2. Output Gain Flatness 3. Second Order Harmonics 4. Third Order Harmonics 5. VSWR			
15	9	EMC/RI/SG/MY50141437	MXG Analog Signal Generator	MY50141437	N5181A	Agilent	1. Frequency 2. Power Level Linearity/level accuracy 3. Power Level Flatness 4. Harmonics - 2nd & 3rd 5. Amplitude Modulation - 10%, 50% & 90% 6. Frequency Modulation 7. Pulse modulation 8. LF Output			
16	10	EMC/RI/SG/MY50141415	MXG Analog Signal Generator	MY50141415	N5181A	Agilent	1. Frequency 2. Power Level Linearity/level accuracy 3. Power Level Flatness 4. Harmonics - 2nd & 3rd 5. Amplitude Modulation - 10%, 50% & 90% 6. Frequency Modulation 7. Pulse modulation 8. LF Output			



17	11	EMC/RI/SG/MY50140525	MXG Analog Signal Generator	MY50140525	N5183A	Agilent	1. Frequency			
							2. Power Level Linearity/level accuracy			
							3. Power Level Flatness			
							4. Harmonics - 2nd & 3rd			
							5. Amplitude Modulation - 10%, 50% & 90%			
							6. Frequency Modulation			
							7. Pulse modulation			
							8. LF Output			
18	32	EMC/DC PS/GEN 3300 W	DC power supply	GEN 3300W	GEN 40-85-IEMD	TDK Lambda	1. DC Voltage			
							2. DC Current			
							3. Load Regulation			
19	33	EMC/OSC/MY50520117	Digital Storage Oscilloscope	MY50520117	DSO 9254A	Agilent	1. Amplitude			
							2. Time period / Time base accuracy - 4 channel (5s to 1ns)			
							3. Input Resistance (1MOhm & 50Ohm)			
							4. Bandwidth			
							5. Trigger System			
							6. Probe Comp Output			
20	34	EMC/OSC/MY50340233	Digital Storage Oscilloscope	MY50340233	DSO 7054B	Agilent	1. Amplitude			
							2. Time period / Time base accuracy - 4 channel (5s to 1ns)			
							3. Input Resistance (1MOhm & 50Ohm)			
							4. Bandwidth			
							5. Trigger System			
							6. Probe Comp Output			
21	35	EMC/WG/MY44061602	Function/ Arbitrary Waveform Generator	MY44061602	33220A	Agilent	1. Frequency			
							2. Amplitude			
							3. Amplitude flatness			
							4. DC offset			
22	36	EMC/MY47040530	6½Digital Multimeter	MY47040530	34401A	Agilent	1. DC Voltage			
							2. AC Voltage			
							3. DC Current			
							4. AC Current			
							5. Resistance			
23	63	EMC/RE/AWG/478	Arbitrary waveform generator	MY44061478	33220A	Agilent	1. Frequency			
							2. Amplitude			
							3. Amplitude flatness			
							4. DC offset			
24	74	EMC/DMM/45960685WS	Digital Multimeter	45960685WS	107	Fluke	1. DC Voltage			
							2. AC Voltage			
							3. DC Current			
							4. AC Current			
							5. Resistance			
25	26	EMC/WPS/MY50520011	Wideband Power Sensor	MY50520011	N1921A	Agilent	1. VSWR			
							2. Calibration Factor			
Subtotal										
IGST @ 18%										
Total cost for onsite calibration										

Note:

- 1) Column no:9 - This column should be filled with "Yes" or "No" only as per the accreditation availability of the bidder for the particular parameter. Unfilled rows will be assumed as ineligible for calibration
- 2) Column no:11 - In case of equal price bid between two agencies, agency with better "best CMC" values will be selected
- 3) Column no:12 - The price should be the net price charged to GARC for calibration inclusive of other indirect charges like transportation etc...

