Date 05/02/2 PROFORMA FOR REQUESTING RELAXATION OF GLOBAL TENDER ENOURY (GTE) AS

RULE NO.161 (IV) OF GFR 2017 WITH PROVISIONS FOR PROCESSING GTE CASES PUBLIC TENDER CASES INVOLVING FOREIGN VENDORS FOR LT/ST Description of the item RF FIELD MEASUREMENT TEST SETUP. 2 Category (Equipment/Raw material) Equipments 3 Use of the item RF field measurements at sub assembly level, Vehicle Level and other selected location depending up on requirements from LV projects. Quantity to be procured with justification for the quantity 4 01set Estimated Cost of the item 5 74.50.000/-6 The current bulky setup consumes considerable time and effort in Justification for Global Tender and essentiality of import setting up, calibrating, and maneuvering, leading to in efficiencies in the measurement process. By transitioning to a handheld setup, it significantly reduces setup time and streamlines the measurement process, and also allow to focus more on actual measurements rather than setup logistics. Information about the procurement of equipments should be shared across various educational and research institute through Not applicable, since the items are used for outdoor EMI /EMC I-STEM (Indian Science Technology and Engineering Facilities testing of subsystem/systems of launch vehicles of ISRO. Map) portal. Confirm whether any issue in sharing the information Details of potential local vendor identified for developing as 8 No EOI received through PLR indigenous source for the proposed item/equipment in India, if (Ref. No: PLR/2023/3767) Certification in Compliance with the Guidelines of Para 2 of OM No. 20/45/2020- PPD dated 08/01/2021 Handheld field measurement devices are equipped with advanced 9 Certification of requirement of proprietary items of foreign origin technology and precision sensors that offer superior accuracy for research purpose (where applicable) compared to older bulky test setups. This improvement in accuracy is crucial, especially when conducting measurements at a subassembly level, where precise data is essential for ensuring compliance with EMI standards Certificate on Non-availability of Indian manufacturer/Supplier 10 Technical specifications of these equipments were uploaded in PLR. No technically suitable offers / EOI received from any Indian Manufacturers / Suppliers through PLR. Certification that locally available alternatives with equivalent 11 No quote received from Indian manufacturers for alternatives with specifications are not suitable for research purpose equivalent specifications in PLR. Hence no local item available. Handheld antennas and associated equipments are not available Certification on non-availability of such equipment for research 12 within VSSC. Hence cannot be shared. These are special purpose purposes withnearby research institute or within the equipments with low level interference measurement capabilities institute. highly recommended for sub assembly level tests. 13 Certificate on Non-availability in India of particular Item is not available in GeM and no local offers received against equipment/consumables of foreign origin through Government PLR e-Marketplace (GeM) and other sources 14 All launch vehicle projects like PSLV, GSLV, LVM3, RLV, SSLV, Name of the Project against which the current procurement is GAGANYAAN and TVP. These items are needed for EMI/EMC proposed, along with Project status test and EMI RF field measurement as per MILSTD 461C/MIL STD 461G. Details of consolidated requirement of the item for other 15 No procurements already initiated. All consolidated requirements projects with status of procurement action already initiated, if from all projects of VSSC are considered in this procurement. any.

Name of Indenting Officer:	O M Sajichandrachood Climulm
D	Forwarded By
Division Head	Group Director M. C. 2 - 02 - 2024
Deputy Director, AVN	A-Spooga, AD(P)
Director VSSC	Approved By
m m	Com

Τo

डॉ. उण्णिकृष्णन नायर एस Dr. Unnikrishnan Nair S निदेशक, वीएसएससी Director, VSSC

Annexure 1

l.	Item Description	Qty	End use
No.	RF FIELD MEASUREMENT TEST SETUP	UREMENT TEST SETUP O1 set RF field measurements at su level, Vehicle Level and othe location depending up on red from projects like PSLV, G5	RF field measurements at sub assembly level, Vehicle Level and other selected location depending up on requirements from projects like PSLV, GSLV, LVM3, GAGANYAAN, RLV, SSLV and TVP

CI No	INSTRUMENTS	Qty
Sl. No	RF Spectrum Analyzer with Pre Amplifier(9KHz to 44GHz)	1
2.	Isotropic Antenna(9 KHz to 200MHz)	1
3.	Isotropic Antenna.(30MHz to 3GHz)	1
4.	Isotropic Antenna.(700MHz to 8GHz)	1
5.	Directional Antenna(5GHz to 20GHz)	1
6.	Directional Antenna(18GHz to 44GHz)	



Indian Space Research Organisation (ISRO) Procurement Live Register (PLR) Certificate

Date: 30-01-2024

Ref: PLR/2023/3767



	Item Grade / Category	Equipments & Accessories
		Equipment
120	PLR item description & Part No/	Name: RF Field Measurement Test Setup
PLR item description & Par Part Details	Part Details	Equivalent Part No: RF Field measurement test setup, MIL STD 461C/MIL STD 461G
		Specification: 1.RF Spectrum Analyzer with Pre Amplifier (Model Number R&S FPH /FPH-B26/FPH-K15/FPH-K105) Frequency Range: 9 kHz to 44 GHz, Frequency Span: 10 Hz to 44 GHz, Frequency Resolution: 1Hz, Resolution and video Band width: 10Hz to 3.0MHz, Sweep Time: 2mS to 1000s, Display range: Displayed noise floor to +30dBm, Application installed: EMF measurement application with Automatic Report Generation , Features Required: Spectrogram, Pre-amplifier; Battery Operation: minimum 4 hours required, Interface: USB/LAN/Remote operation. software or GUI, Warranty: 3 years above. 2. Compatible Isotropic Antenna(9 KHz to 200MHz) (Model Number TS-EMF-B3) Isotropic Antenna frequency range: -9 KHz to 200MHz(Hand held), Field strength measurement range: 1mV/m to 100V/m, RFconnector: N-Type 3. Compatible Isotropic Antenna. (30MHz to 3GHz) (Model Number TS-EMF-B1) Isotropic Antenna Broad frequency range: 30 MHz-3 (BHz, Probe directivity: Omnidirectional, Calibration accuracy: +/- 1 dB., Linearity: Typically, better than +/- 0.4 dB., Rotational isotropicity (typ.): +/- (1.5-3) d4. Isotropic antenna (700MHz to 8GHz), Model Number TS-EMF-B2E) Frequency range:-700 MHz to 8GHz, Minimur detectable Feld strength approx=. mV/m, Maximum, Isotropy ±2.5 dB (0.6 GHz to 2 GHz), ±2.2 dB (2 GHz to 3.6 GHz), ±3.0 dB (3.6 GHz, to 2 GHz), mechanical design:Radome protection agains mechanical damage and environmental hazards, Antenn factor: Individual calibration data, saved on USB dongle and/or CDConnecting cables: To be provided, R connector: N male Connector, adapter cable for connectic to notebook or spectrum analyzer with USB output Tripc adapter 1/4-" thread, quick connector for antenr R e q i r e m e n t 1. S. Isotropic Antenna (Hand held Directioanl Antenna 5GHz 20GHz) (Model Number HE800-PA) Frequen range:5GHz to 20GHz, Nominal impedance:50 Ohm, Oput VSWR:<2.0, polarization: Linear, Output: IP3:20dB Connector(RF output):2.92mm, Destructive Field Streng > 10V/m. 6. Isotropic Antenna (Hand held Directioanl Antenna 18GI to 44GHz (Mode
	No. of the Control of	15-12-2023

4	Details of EOI received (if any)	NIL
5.a	In case of EOI received, Status of Qualification and probable completion date	ble
6	Centre / Group	VSSC/AVN

(Indenting Officer)
(o.M. Sagichand radhood)

(Approving Authority)

forwarded

सजी जोयस / SAJI JOYAS प्रधान, एडीडी / HEAD, ADD आरएफएसजी / एवीएन / RFSG / AVN वीएसएससी / VSSC

NIC EOI

K. Santaisa kumar

Member Secretaly,

PLR-TEC (Ega AE), Rusp Evaln.

चेरियान तोमस/Cherian Thomas ग्रुप निदेशक, एचआरएजी Group Director, HRAG

एएसओई, वीएसएससी/ASOE, VSSC